

1/35

APPROVED	O.G. FIG.
	CLASS/SUBCLASS
BY	DRAFTSMAN

1 CCGCCC TCCC CCGGCCGAGC TCCAGGGCTG CCGCCTAGCA GCTCCCGGCG
 51 GGAGAGCGGT TCAGAGCTCG CTCCCACCCC TTCCCGGCGT GATTGATCCG
 101 TCACGGGCGC CTCCGCTGCC GCCGCCGCCG CCGCGGCCGT TCTGAGCCGA
 151 GCCGGAACCC TAGCCCGAGA CGGAGCCGGG GCCCGGGCCG GCGCCATTGC
 201 GCGGGCGCCG CGGGAAGACC TTGGCGCGGG GCGGCGGGCC GGGCCAGGCC
 251 ATGCGGGCCG AGTGAGCCGG CGCCCGCAGC CCGCGGCGCG GCATGGCTTC
 301 CCCGCGGAGC TCCGGGCAGC CCGGGCCGCC GCCGCCGCCG CCACCGCCGC
 351 CCGCGCGCCT GCTACTGCTA CTGCTGCTGC CGCTGCTGCT GCCTCTGGCG
 401 CCCGGGGCCT GGGGCTGGGC GCGGGGCGCC CCCCGGCCGC CGCCAGCAG
 451 CCCGCCGCTC TCCATCATGG GCCTCATGCC GCTCACCAAG GAGGTGGCCA
 501 AGGGCAGCAT CGGGCGCGGT GTGCTCCCCG CCGTGGAACT GGCCATCGAG
 551 CAGATCCGCA ACGAGTCACT CCTGCGCCCC TACTTCCTCG ACCTGCGGCT
 601 CTATGACACG GAGTGCGACA ACGCAAAAGG GTTGAAAGCC TTCTACGATG
 651 CAATAAAATA CGGGCCGAAC CACTTGATGG TGTTTGGAGG CGTCTGTCCA
 701 TCCGTACAT CCATCATTGC AGAGTCCCTC CAAGGCTGGA ATCTGGTGCA
 751 GCTTTCTTTT GCTGCAACCA CGCCTGTTCT AGCCGATAAG AAAAAATACC
 801 CTTATTTCTT TCGGACCGTC CCATCAGACA ATGCGGTGAA TCCAGCCATT
 851 CTGAAGTTGC TCAAGCACTA CCAGTGAAG CGCGTGGGCA CGCTGACGCA
 901 AGACGTTTCA AGGTTCTCTG AGGTGCGGAA TGACCTGACT GGAGTTCTGT
 951 ATGGCGAGGA CATTGAGATT TCAGACACCG AGAGCTTCTC CAACGATCCC
 1001 TGTACCAAGT TCAAAAAGCT GAAGGGGAAT GATGTGCGGA TCATCCTTGG
 1051 CCAGTTTGAC CAGAATATGG CAGCAAAAGT GTTCTGTTGT GCATACGAGG
 1101 AGAACATGTA TGGTAGTAAA TATCAGTGGA TCATTCCGGG CTGGTACGAG
 1151 CCTTCTTGGT GGGAGCAGGT GCACACGGAA GCCAACTCAT CCCGCTGCCT
 1201 CCGGAAGAAT CTGCTTGCTG CCATGGAGGG CTACATTGGC GTGGATTTCTG
 1251 AGCCCTGAG CTCCAAGCAG ATCAAGACCA TCTCAGGAAA GACTCCACAG
 1301 CAGTATGAGA GAGAGTACAA CAACAAGCGG TCAGGCGTGG GGCCAGCAA
 1351 GTTCCACGGG TACGCCTACG ATGGCATCTG GGTCACTGCC AAGACACTGC
 1401 AGAGGGCCAT GGAGACACTG CATGCCAGCA GCCGGCACCA GCGGATCCAG
 1451 GACTTCAACT ACACGGACCA CACGCTGGGC AGGATCATCC TCAATGCCAT
 1501 GAACGAGACC AACTTCTTCG GGGTCACGGG TCAAGTTGTA TTCCGGAATG
 1551 GGGAGAGAAT GGGGACCATT AAATTTACTC AATTTCAAGA CAGCAGGGAG
 1601 GTGAAGGTGG GAGAGTACAA CGCTGTGGCC GACACACTGG AGATCATCAA
 1651 TGACACCATC AGGTTCCAAG GATCCGAACC ACCAAAAGAC AAGACCATCA
 1701 TCCTGGAGCA GCTGCGGAAG ATCTCCCTAC CTCTCTACAG CATCCTCTCT
 1751 GCCCTACCA TCCTCGGGAT GATCATGGCC AGTGCTTTTC TCTTCTTCAA
 1801 CATCAAGAAC CGGAATCAGA AGCTCATAAA GATGTCGAGT CCATACATGA
 1851 ACAACCTTAT CATCCTTGGA GGGATGCTCT CCTATGCTTC CATATTTCTC
 1901 TTTGGCCTTG ATGGATCCTT TGTCTCTGAA AAGACCTTTG AAACACTTTG
 1951 CACCGTCAGG ACCTGGATTG TCACCGTGGG CTACACGACC GCTTTTGGGG
 2001 CCATGTTTGC AAAGACCTGG AGAGTCCACG CCATCTTCAA AAATGTGAAA
 2051 ATGAAGAAGA AGATCATCAA GGACCAGAAA CTGCTTGTTGA TCGTGGGGGG
 2101 CATGCTGCTG ATCGACCTGT GTATCCTGAT CTGCTGGCAG GCTGTGGACC
 2151 CCCTGCGAAG GACAGTGGAG AAGTACAGCA TGGAGCCGGA CCCAGCAGGA

FIG. 1A

2/35

APPROVED	O.G. FIG.
	CLASS/SUBCLASS
BY	DRAFTSMAN

2201 CGGGATATCT CCATCCGCC TCTCCTGGAG CACTGTGAGA ACACCCATAT
 2251 GACCATCTGG CTTGGCATCG TCTATGCCTA CAAGGGACTT CTCATGTTGT
 2301 TCGGTTGTTT CTTAGCTTGG GAGACCCGCA ACGTCAGCAT CCCC GCACTC
 2351 AACGACAGCA AGTACATCGG GATGAGTGTC TACAACGTGG GGATCATGTG
 2401 CATCATCGGG GCCGCTGTCT CTTTCCTGAC CCGGGACCAG CCCAATGTGC
 2451 AGTTCTGCAT CGTGGCTCTG GTCATCATCT TCTGCAGCAC CATCACCTC
 2501 TGCCTGGTAT TCGTGCCGAA GCTCATCACC CTGAGAACAA ACCCAGATGC
 2551 AGCAACGCAG AACAGGCGAT TCCAGTTCAC TCAGAATCAG AAGAAAGAAG
 2601 ATTCTAAAAC GTCCACCTCG GTCACCAGTG TGAACCAAGC CAGCACATCC
 2651 CGCCTGGAGG GCCTACAGTC AGAAAACCAT CGCCTGCGAA TGAAGATCAC
 2701 AGAGCTGGAT AAAGACTTGG AAGAGGTCAC CATGCAGCTG CAGGACACAC
 2751 CAGAAAAGAC CACCTACATT AAACAGAACC ACTACCAAGA GCTCAATGAC
 2801 ATCCTCAACC TGGGAAACTT CACTGAGAGC ACAGATGGAG GAAAGGCCAT
 2851 TTTAAAAAAT CACCTCGATC AAAATCCCCA GCTACAGTGG AACACAACAG
 2901 AGCCCTCTCG AACATGCAAA GATCCTATAG AAGATATAAA CTCTCCAGAA
 2951 CACATCCAGC GTCGGCTGTC CCTCCAGCTC CCCATCCTCC ACCACGCCTA
 3001 CCTCCCATCC ATCGGAGGCG TGGACGCCAG CTGTGTCAGC CCCTGCGTCA
 3051 GCCCCACCGC CAGCCCCCGC CACAGACATG TGCCACCCTC CTTCCGAGTC
 3101 ATGGTCTCGG GCCTGTAAGG GTGGGGGGCC TGGGCCCGGG GCCTCCCCCG
 3151 TGACAGAACC ACACTGGGCA GAGGGGTCTG CTGCAGAAAC ACTGTGCGCT
 3201 CTGGCTGCGG AGAAGCTGGG CACCATGGCT GGCCTCTCAG GACCACTCGG
 3251 ATGGCACTCA GGTGGACAGG ACGGGGCAGG GGGAGACTTG GCACCTGACC
 3301 TCGAGCCTTA TTTGTGAAGT CTTATTTCT TCACAAAGAA GAGGAACGGA
 3351 AATGGGACGT CTTCTTAAC ATCTGCAAC AAGGAGGCGC TGGGATATCR
 3401 AATTCCACCA CACTGGCGGC CCGCGCTTGS TCSTAATCAT GGTCAATACT
 3451 GTTTCCTGTG TTGAAATTGT TATCCGCTCC

FIG.1B

APPROVED BY	O.G. FIG.
	CLASS/SUBCLASS
DRAFTSMAN	

1 MASPRSSGQP GPPPPPPPPP ARLLLLLLLP LLLPLAPGAW GWARGAPRPP
 51 PSSPPLSIMG LMPLTKEVAK GSIGRGVLP VELAIEQIRN ESLLRPYFLD
 101 LRLYDTECDN AKGLKAFYDA IKYGNHLMV FGGVCPSVTS IIAESLQGWN
 151 LVQLSFAATT PVLADKKKYP YFFRTVPSDN AVNPAILKLL KHYQWKRVTG
 201 LTQDVQRFSE VRNDLTGVLY GEDIEISDTE SFSNDPCTSV KKLKGN DVRI
 251 ILGQFDQNMA AKVFCCAYEE NMYGSKYQWI IPGWYEPSWW EQVHTEANSS
 301 RCLRKNLLAA MEGYIGVDFE PLSSKQIKTI SGKTPQQYER EYNNKRSGVG
 351 PSKFHGYAYD GIWVIAKTLQ RAMETLHASS RHQRIQDFNY TDHTLGRIL
 401 NAMNETNFFG VTGQVFRNG ERMGTIKFTQ FQDSREVKVG EYNAVADTLE
 451 IINDTIRFQG SEPPKDKTII LEQLRKISLP LYSILSALT I LGMIMASAFL
 501 FFNIKRNQK LIKMSSPYMN NLIILGGMLS YASIFLFGLD GSFVSEKTFE
 551 TLCTVRTWIL TVGYTTAFGA MFAKTWRVHA IFKNVKMKKK I IKDQKLLVI
 601 VGGMLLIDLC ILICWQAVDP LRRTVEKYSM EPDPAGRDIS IRPLLEHCEN
 651 THMTIWL GIV YAYKGLMLF GCFLAWETR N VSIPALNSDK YIGMSVYNVG
 701 IMCIIGA AVS FLTRDQPNVQ FCIVALVIIF CSTITLCLVF VPKLITLRTN
 751 PDAATQNR RF QFTQNQKKED SKTSTSVTSV NQASTSRLEG LQSENHRLRM
 801 KITELDKDLE EVTMQLQDTP EKT TYIKQNH YQELNDILNL GNFTTESTDGG
 851 KAILKNHLDQ NPQLQWNTTE PSRTCKDPIE DINSPEHIQR RLSLQLPILH
 901 HAYLPSIGGV DASCVSPCVS PTASPRHRHV PPSFRVMVSG L

FIG.2

APPROVED BY DRAFTSMAN	O.G. FIG.	CLASS SUBCLASS

Sequence: LPLLLPLAPGAWG-WARGAPRPPSSPPLSIMGLMPLTKEVAKGSIGRGVLPAVELAIEQIRNE
 |(signal) |(mature peptide)
 29 42

Other entries above 3.50

Score 11.1 at residue 39

Sequence: LLLLPLLLPLAPG-AWGWARGAPRPPSSPPLSIMGLMPLTKEVAKGSIGRGVLPAVELAIEQI
 |(signal) |(mature peptide)
 26 39

Score 8.6 at residue 38

Sequence: LLLLLPLLLPLAP-GAWGWARGAPRPPSSPPLSIMGLMPLTKEVAKGSIGRGVLPAVELAIEQ
 |(signal) |(mature peptide)
 25 38

Score 8.1 at residue 35

Sequence: RLILLLLPLLLP-LAPGAWGWARGAPRPPSSPPLSIMGLMPLTKEVAKGSIGRGVLPAVELA
 |(signal) |(mature peptide)
 22 35

Score 7.9 at residue 36

Sequence: LILLLLPLLLPL-APGAWGWARGAPRPPSSPPLSIMGLMPLTKEVAKGSIGRGVLPAVELAI
 |(signal) |(mature peptide)
 23 36

Score 6.2 at residue 9

Sequence: -QPGRPPPPPPPARLILLLLPLLLPLAPGAWGWARGAPRPPSSPPLSI
 |(signal) |(mature peptide)
 -4 9

Score 5.7 at residue 46

Sequence: LPLAPGAWGWARG-APRPPSSPPLSIMGLMPLTKEVAKGSIGRGVLPAVELAIEQIRNESLLR
 |(signal) |(mature peptide)
 33 46

Score 5.6 at residue 747

Sequence: ITLCLVFVPKLIT-LRTNPDAATQNRRFQFTQNQKKEDSKTSTSVTSVNQASTSRLEGLOQSENH
 |(signal) |(mature peptide)
 734 747

Score 5.0 at residue 44

Sequence LLLPLAPGAWGWA-RGAPRPPSSPPLSIMGLMPLTKEVAKGSIGRGVLPAVELAIEQIRNESL
 |(signal) |(mature peptide)
 31 44

Score 4.9 at residue 497

FIG.3A

APPROVED	O.G. FIG.	CLASS SUBCLASS
	BY	
		DRAFTSMAN

Sequence: ILSALTILGMIMA-SAFLFFNIKNRNQKLIKMSPPMNNLIILGGMLSYASIFLFGLDGSFVSE
 | (signal) | (mature peptide)

484 497

Score 4.5 at residue 141

Sequence: LMVFGGVCPSVTS-IIAESLQGWNLVQLSFAATTPVLADKKKYPYFFRTVPSDNAVNPAILKLL
 | (signal) | (mature peptide)

128 141

Score 4.4 at residue 734

Sequence: FCIVALVIIFCST-ITLCLVFVPKLITLRTNPDAATQNRRFQFTQNQKKEDSKTSTSVTSVNQA
 | (signal) | (mature peptide)

721 734

Score 4.1 at residue 165

Sequence: VQLSFAATTPVLA-DKKKYPYFFRTVPSDNAVNPAILKLLKHYQWKRVTLTQDVQRFSEVRND
 | (signal) | (mature peptide)

152 165

Score 3.6 at residue 158

Sequence: SLQGWNLVQLSFA-ATTPVLADKKKYPYFFRTVPSDNAVNPAILKLLKHYQWKRVTLTQDVQR
 | (signal) | (mature peptide)

145 158

FIG.3B

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

Distribution of mRNA for EST z43654 in squirrel monkey brain.

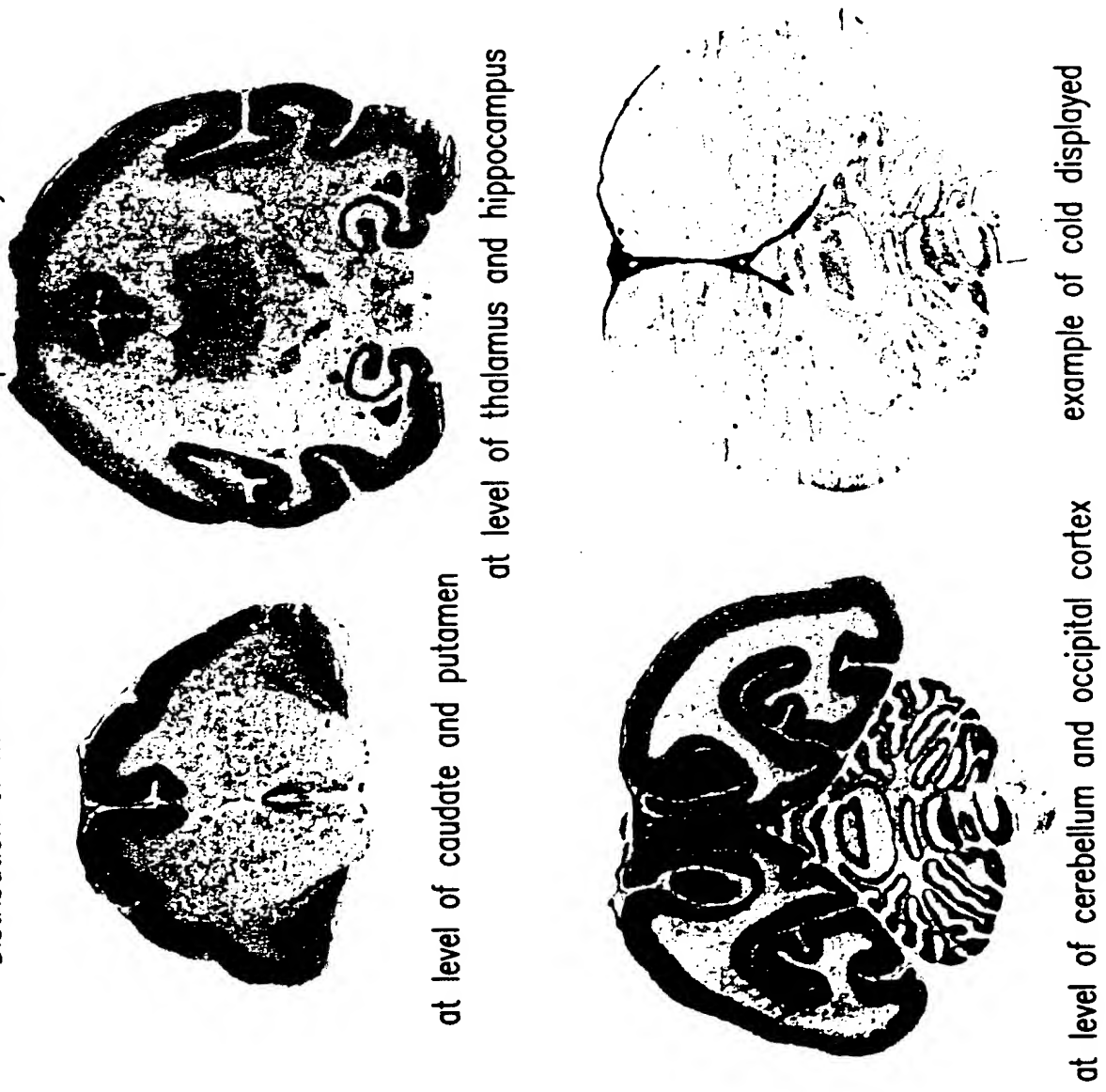
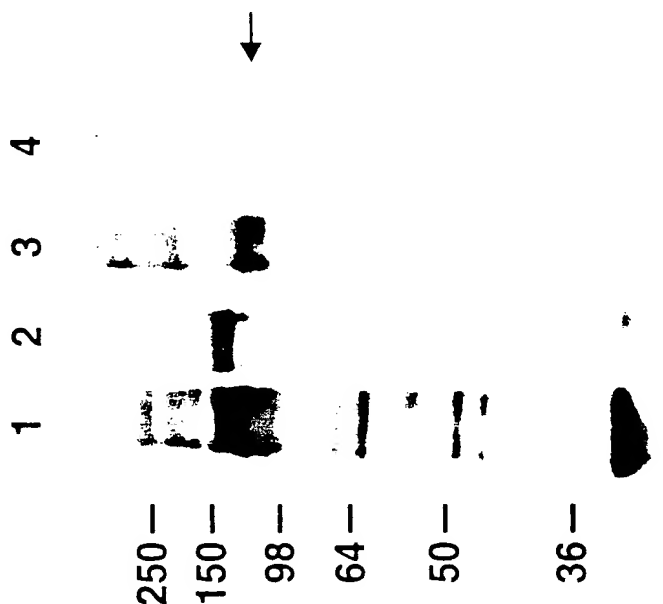


FIG.4

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

09/601582

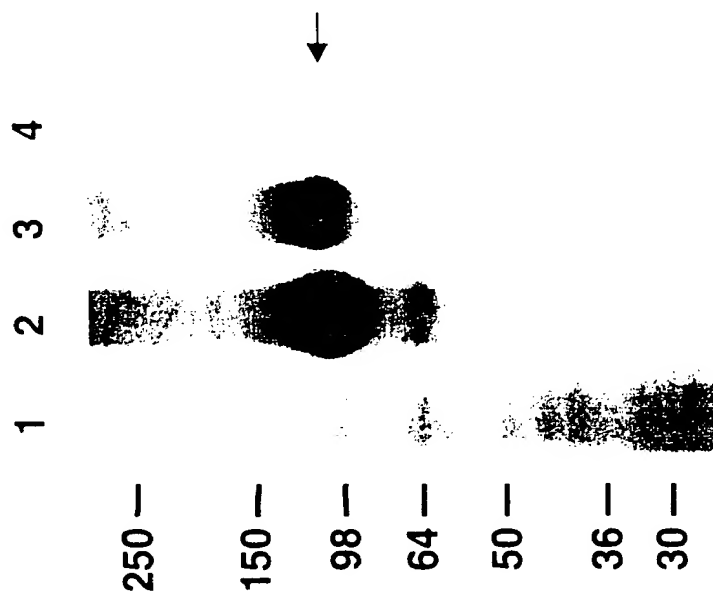
7/35



COS-7 Melanophores

- 1- FLAG-HG20/pcDNA 3.1
- 2- pcDNA 3.1
- 3- FLAG-HG20/pcDNA 3.1
- 4- pcDNA 3.1

FIG.5B



- 1- HG20/PCR 3.1
- 2- FLAG-HG20/pcDNA 3:1
- 3- Mouse GABA_B/pcDNA 3:1
- 4- pcDNA 3:1

FIG.5A

8/35

APPROVED BY	O.G. FIG.
	CLASS/SUBCLASS
DRAFTSMAN	

PLTKEVAK-GSIGR-GVLPVELAIEQIRNESLLRPYFLDLRLYDTECDNAKGLKAFYDA
XX
 PVTGPVAQYGDMQRAGAL----MAIEQINKAGGVNGAQLGVIYDDACDPKQAVAVANKV

IKYGPNHLMVFGGVCPSVTIIAESLQGWNLVQLSFAATTPVLADKKKYPYFFRTVPSDN

 VNDGVK--FVVGHVCCSSTQPATDIYEDEGLMITPSATAPEIT-SRGYKLIFRTIGLDN

AVNPAILKLL-KHYQWKRVTGLTQDVQRFSE-VRNDLTGVLYGEDIEISDTESFS---ND

 MQGPVAGKFIAERYKVKTIAVL-HDKQQYGEIATEVKKTVEDAGIRVAVFEGLNAGDKD

PCTSVKKLKGNDVRII-LGQFDQNM

 FNALISKLLKAGVQFVYFGGYHPEM

FIG.6

9/35

APPROVED	O.G. FIG.	CLASS	SUBCLASS
BY			
DRAFTSMAN			

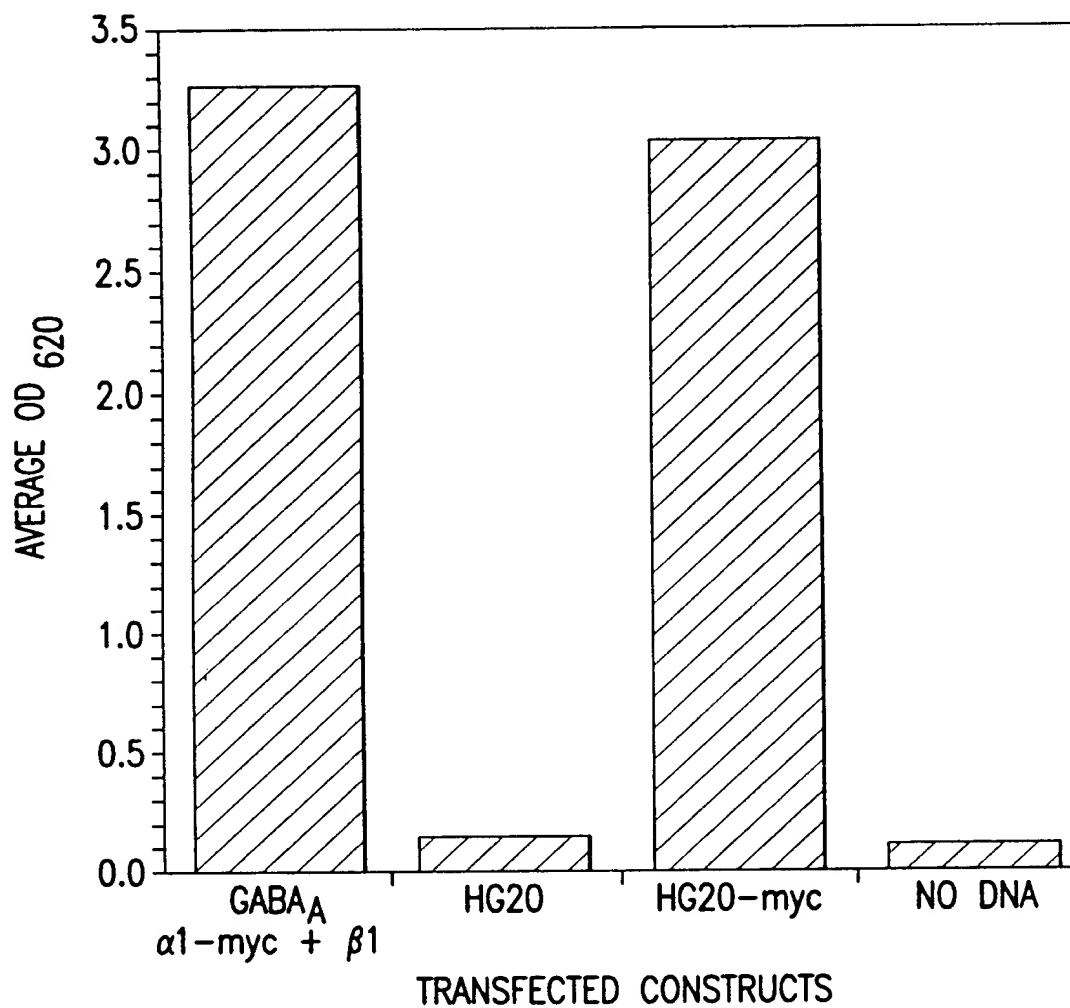


FIG.7

FIG. 8A

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

GABA-BR1b 587
NNLTAVGCSLAAVFLPLGLDGYHIGRSQFPFVCQARLWLLGLFSLGYGSMFTKIWWVHTVFTKKEEKKWRKT
HG20 591
NNLITILGMLSYASIFLGLDGSFVSEKTFETLCTVRTWILTVGYTTAFGAMFAKTWRVHAIF--KNVKMK-KKI
Consensus 600
NNL...G...L...A...F...GLDG.....F...C...R...W...L...G.....G...MF...K...W...VH...F...K...K...K.....K...

GABA-BR1b 662
LEPWKL YATVGLLVGMDVLTALWQIVDPLHRTIETFAKEEPKEDIDVSI LPLEHCSSKKMNTWLGI FYGYKGL
HG20 666
IKDQKLLVIVGGMLLIDLCILICQAVDPLRRTVEKYSMEPDAGRDISIRPLLEHCENTHMTIWLGI VYAYKGL
Consensus 675
...KL...VG.....D...L...WQ...VDPL...RT...E.....D...SI...P...LEHC.....M...WLG...I...Y...YKGL

GABA-BR1b 737
LLLLGIFLAYETKSVSTEKINDHRAVGMAIYNVAVLCLITAPVTMILSSQDDAAFAFASLAIVFSSYITLWLVFV
HG20 741
LMLFGCFLAWETRNVSI PALNDSKYIGMSVYVNGIMCIIGAASVFLTRDQPNVQFCIVALVIIFCSTITLCLV FV
Consensus 750
L.L.G.FLA.ET..VS...ND...GM...YNV...C.I.A.V.....Q.....F...L.I.F.S.ITL...FV

GABA-BR1b 784
PKMRLITRGE-----W-----QSETQDTMTKGSS-TNNNEEEKSRL--LEKE-----NRELEKI-----
HG20 816
PKLITLRTPDAATQNRFRFTQNKQKEDSKTSTSVTSVNOASTSRLEGLOSENHRRLRMKITELDKDLEEVTMQL
Consensus 825
PK...L.T.....Q.....KT..S.T..N....SRL..L..E.....LE.....

GABA-BR1b 820
--IAEKE-----ERVSE-----LRHQLQSRQQLRSRRHPPTPP--DPSGG-----
HG20 891
QDTPEKTTYIKQNHYYQLNDILNLGNFTSTGKGKAILKNHLDQNPQLQMNWTEPSRTCKDPIEDINSPEHIQRR
Consensus 900
...EK.....L...L...QL.....P.....DP.....

GABA-BR1b 844
-----LPR-GPSEPPORLSC-----DGSRVHLL----YK-----
HG20 941
LSLQLPILHHAYLPSIGGVDASCVSPCVSPTASPRHRHVPPSFRVMVSGL
Consensus 950
...LP..G.....C.....R.....

FIG.8B

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

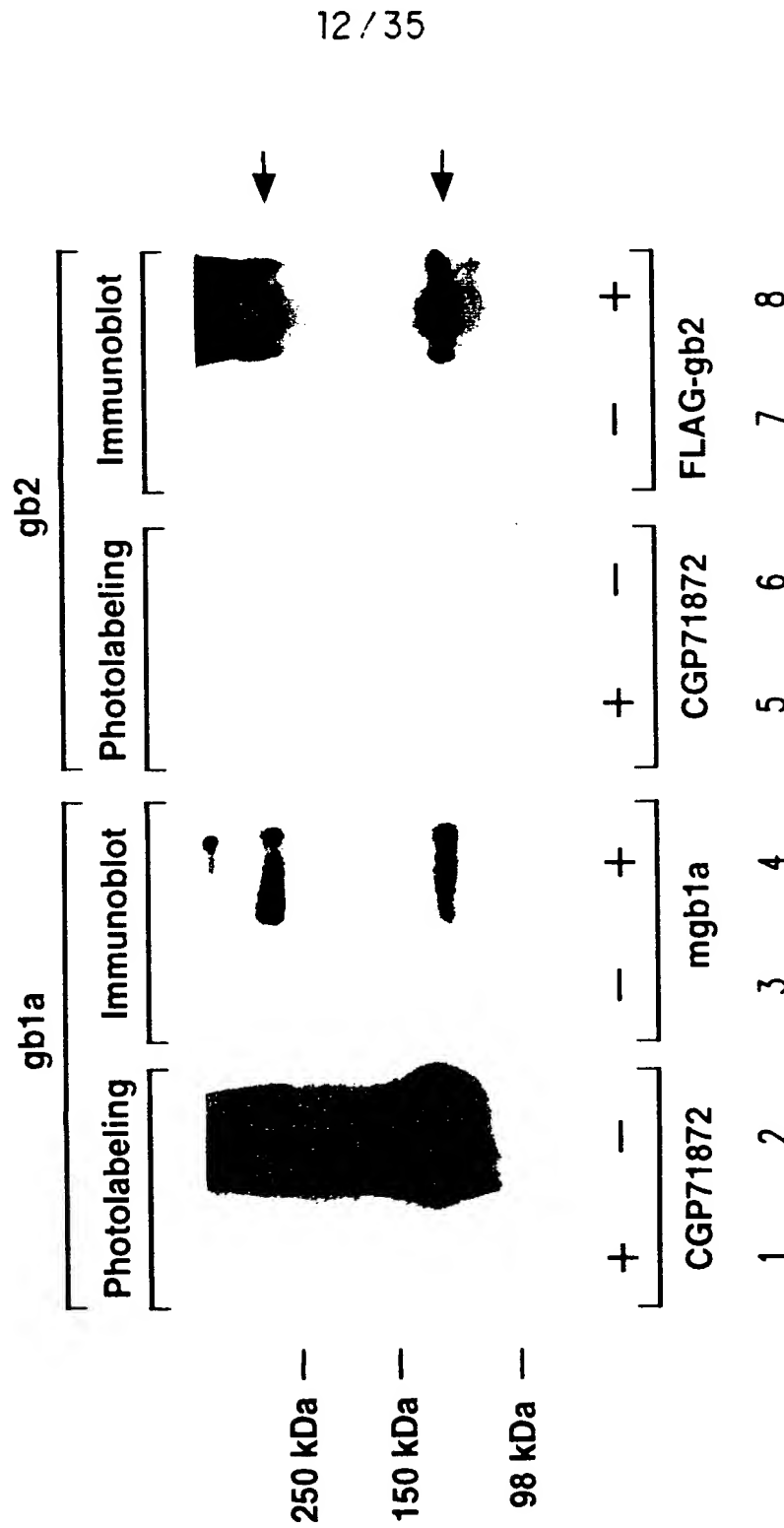


FIG.9

13/35

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

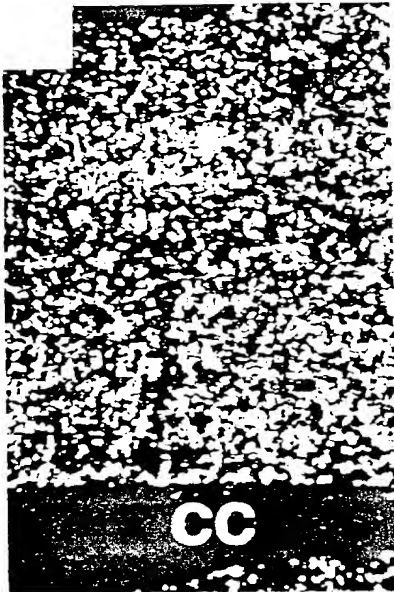


FIG. 10A

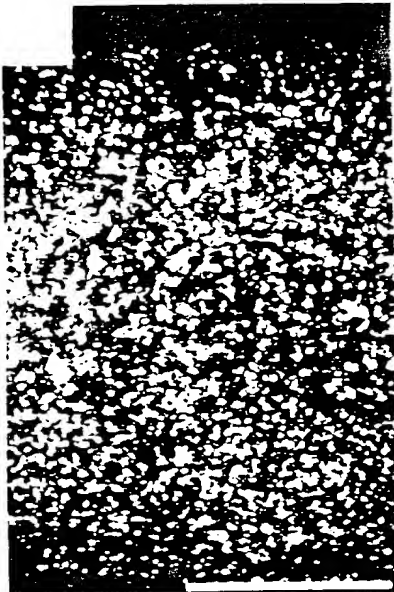


FIG. 10B

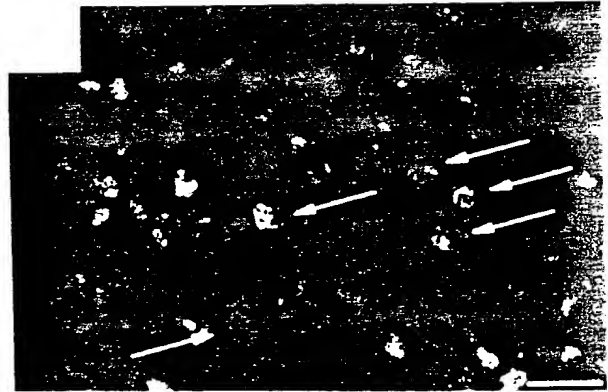


FIG. 10C

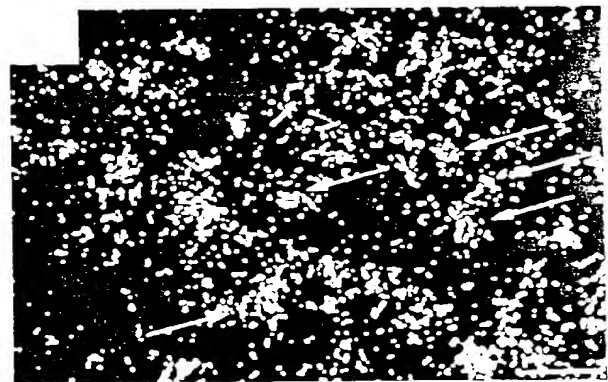


FIG. 10D

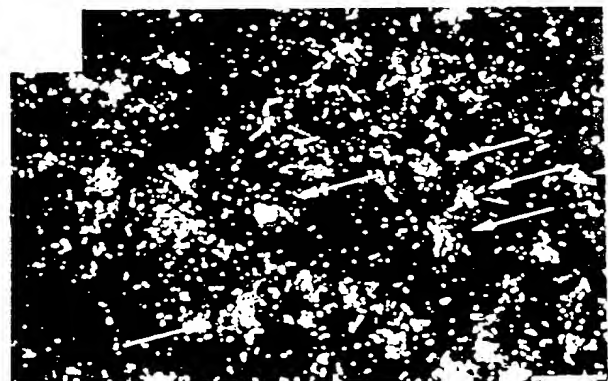


FIG. 10E

004021 20610060

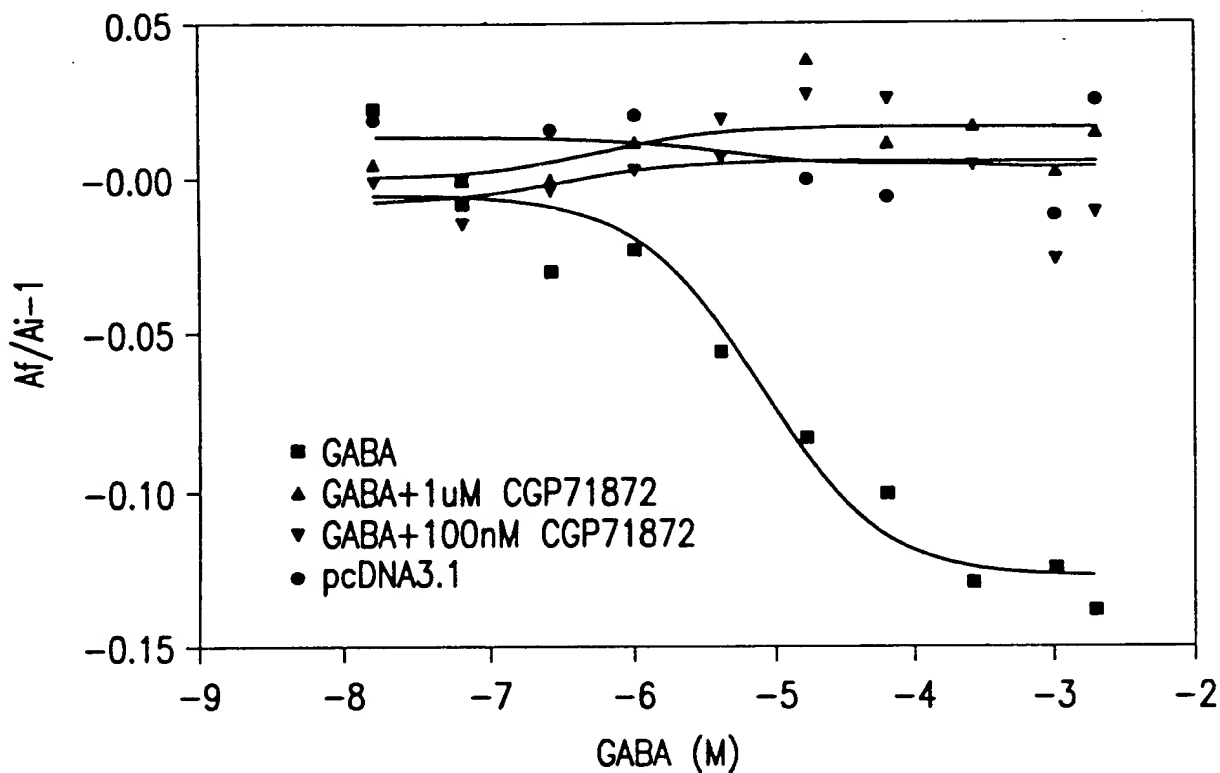


FIG. 11A

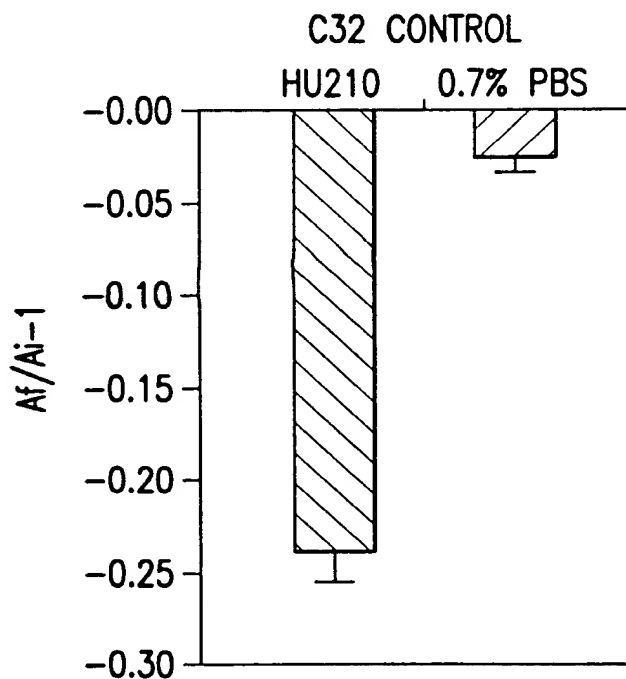


FIG. 11B

15/35

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

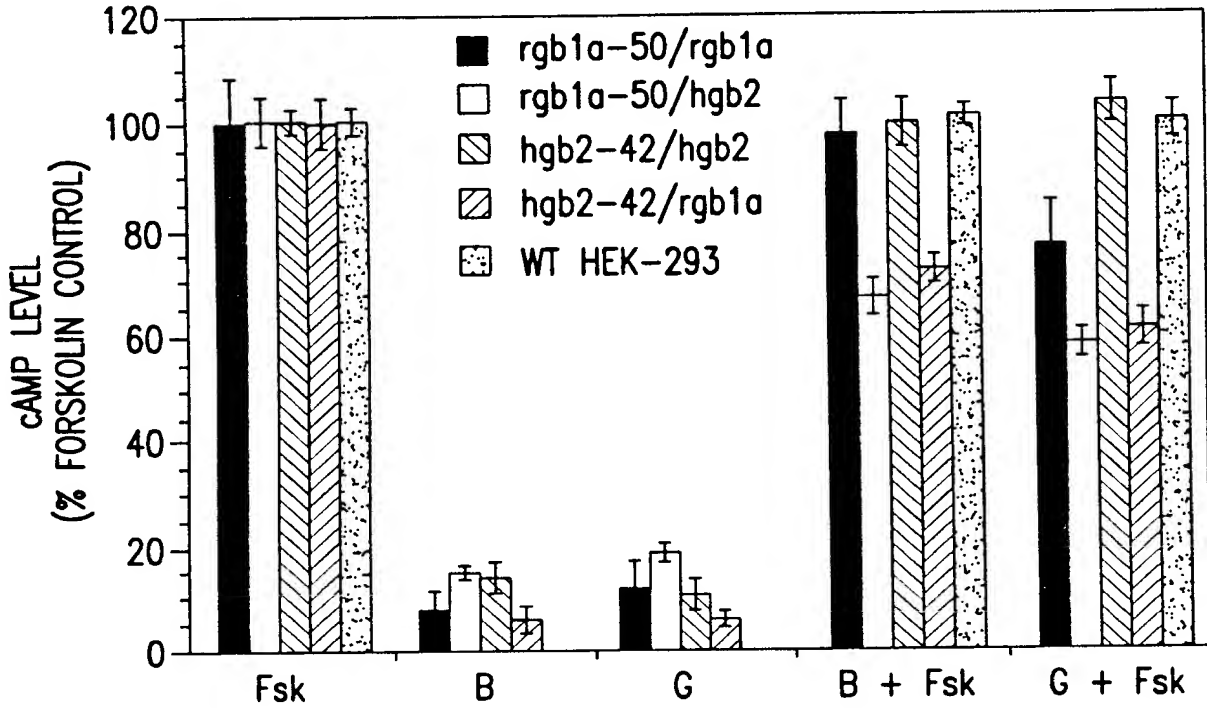


FIG. 12

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

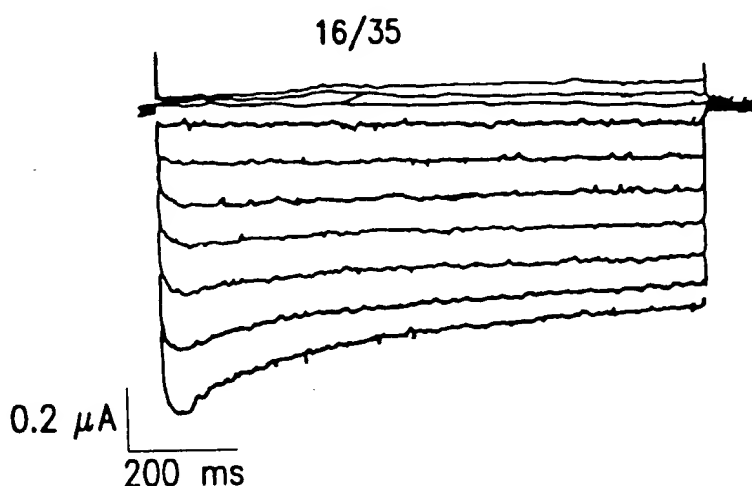


FIG. 13A

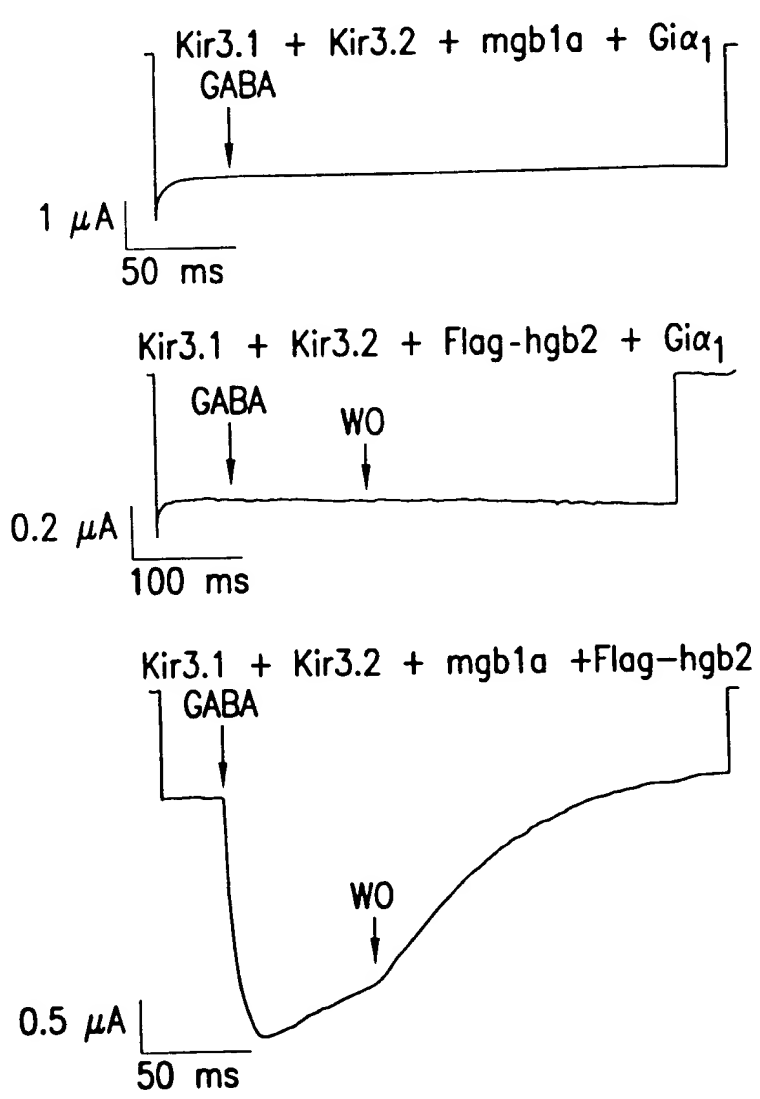


FIG. 13B

17/35

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

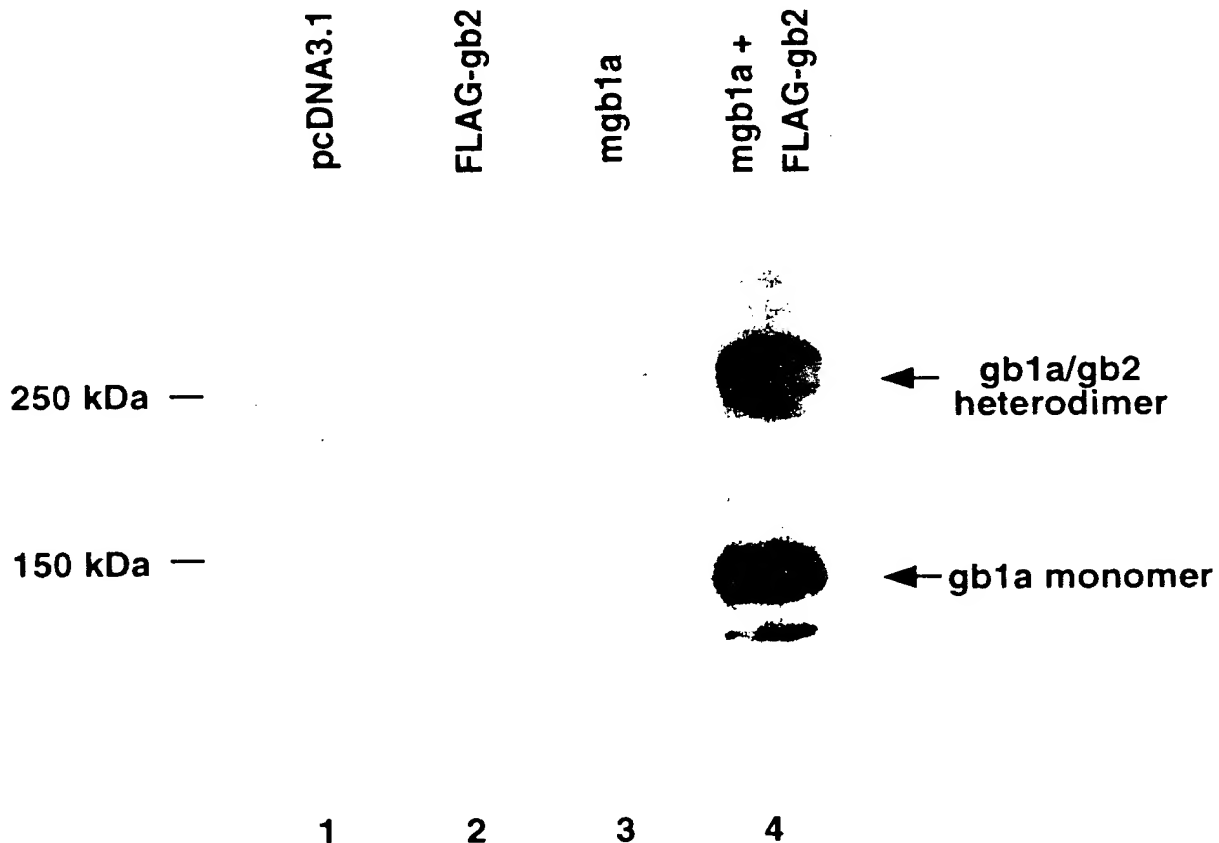


FIG.14

APPROVED	O.G. FIG.
	CLASS/SUBCLASS
BY	
DRAFTSMAN	

1 atgctgctgc tgctgcttct gcttctcttc ctccgcccc tgggcgctgg cggggctcag
 61 accccaacg tcacctcgga aggttgccag attatacatc cgccctggga aggtggcatc
 121 aggtaccgtg gcttgattcg cgaccaggtg aaggccatca atttctgcc tgtggactat
 181 gagattgaat atgtgtgccg gggcgaacgc gaggtggtgg ggccaaggt gcgcaagtgc
 241 ctggccaacg gctcctggac ggatatggac acaccagtc gctgtgtccg aatctgctcc
 301 aagtcttatt tgaccctgga aaatgggaag gttttcctga cgggtgggga cctcccagct
 361 ctggatggag cccgggtgga tttccgatgt gaccctgact tccatctggt gggcagctcc
 421 cggagcatct gtagtcaggg ccagtggagc accccaagc cccactgcca ggtgaatcga
 481 acgccacact cagaacggcg tgcagtatac atcggggcgc tgtttcccat gagcgggggc
 541 tggccggggg gccaggcctg ccagcctgcg gtggagatgg cgctggagga cgttaacagc
 601 cgcagagaca tcctgccgga ctacgagctc aagcttatcc accacgacag caagtgcgac
 661 ccagggcaag ccaccaagta cttgtatgaa ctactctaca acgaccccat caagatcatc
 721 ctcatgcccg gctgcagctc tgtgtccaca ctggtagccg aggtgcccg gatgtggaac
 781 cttattgtgc tctcatatgg ctccagctca ccagccttgt caaaccgaca gcggtttcca
 841 acgttctttc ggacacatcc atccgccaca ctccacaatc ccaccgggt gaaactcttc
 901 gaaaagtggg gctggaagaa gattgccacc atccagcaga ctaccgaggt cttcacctca
 961 acactggatg acctggagga gcgagtgaag gaggtgagg ttagatcac ttttcgacag
 1021 agtttcttct cagatccagc tgtgcctgtt aaaaacctga agcgtcaaga tgctcgaatc
 1081 atcgtgggac ttttctatga gaccgaagcc cggaaagttt tttgtgaggt ctataaggaa
 1141 cggctctttg ggaagaagta tgtctggttt ctcatcggtt ggtatgctga caactgggtc
 1201 aaaacctatg acccgtcaat caattgtaca gtagaagaga tgactgaggc ggtggagggc
 1261 catatcacca cggagattgt catgctgaac cctgccaca cccgaagcat ttccaacatg
 1321 acatcacagg aatttgtgga gaaactaacc aagcggctga aaagacaccc tgaggagact
 1381 ggaggcttcc aggaggcacc actggcctat gatgctattt gggccttggc tttggccttg
 1441 aacaagacct ctggaggagg tggccgttca ggagtgcgcc tggaggactt taactacaac
 1501 aaccagacca ttacagacca aatctaccgg gccatgaact cctcctcctt tgagggtggt
 1561 tctggccacg tggctcttga tgccagcggc tcccggatgg catggacgct tatcgagcag
 1621 ctacagggcg gcagctacaa gaagatcggc tactacgaca gcaccaagga tgatctttcc
 1681 tgggtccaaaa cagacaagtg gatcggaggg tctccccag ccgaccagac cttggtcatc
 1741 aagacattcc gtttctgtc acagaaactc tttatctccg tctcagttct ctccagcctg
 1801 ggcattgttc ttgctgttgt ctgtctgtcc ttaacatct acaactccca cgctcgttat
 1861 atccagaatt cccagcccaa cctgaacaat ctgactgctg tgggctgctc actggcactg
 1921 gctgttgtct tccctctcgg gctggatggt taccacatag ggagaagcca gttcccgtt
 1981 gtctgccagg cccgcctttg gctcttgggc ttgggcttta gtctgggcta tggctctatg
 2041 ttcaccaaga tctggtgggt ccacacagtc ttcacgaaga aggaggagaa gaaggagtgg
 2101 aggaagaccc tagagccctg gaaactctat gccactgtgg gcctgctggt gggcatggat
 2161 gtcctgactc ttgccatctg gcagattgtg gacccttgc accgaaccat tgagactttt
 2221 gccaaaggagg aaccaaagga agacatcgat gtctccattc tgccccagtt ggagcactgc
 2281 agctccaaga agatgaatac gtggcttggc attttctatg gttacaagg gctgctgctg
 2341 ctgctgggaa tcttctgtc ttacgaaacc aagagcgtgt ccactgaaaa gatcaatgac
 2401 cacagggccg tgggatggc tatctacaat gtcgcggtcc tgtgtctcat cactgctcct
 2461 gtgaccatga tctttccag tcagcaggac gcagccttg cctttgcctc tctggccatc
 2521 gtgttctctt cctacatcac tctggttgtg ctctttgtgc ccaagatgcg caggctgact
 2581 acccgagggg aatggcagtc tgaaacgcag gacaccatga aaacaggatc atccaccaac
 2641 aacaacgagg aagagaagtc ccgactgttg gagaaggaaa accgagaact ggaaaagatc
 2701 atcgtgaga aagaggagcg cgtctctgaa ctgcgccatc agctccagtc tcggcagcaa
 2761 ctccgctcac ggcgccacc cccaacacc ccagatccct ctgggggcct tcccagggga
 2821 cctctgagc cccctgacc gcttagctgt gatgggagtc gagtacattt gctttacaag
 2881 tga

FIG.15

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

MLLLLLLLLFLRPLGAGGAQTPNVTSEGCQIIHPPWEGGIRYRGLIRDQVKAINFLPVDY
 EIEYVCRGEREVGPKVRKCLANGSWTDMTPSRCVRICSKSYLTLENGKVFLTGGDLPA
 LDGARVDFRCDPDFHLVGSSRSICSQGQWSTPKPHCQVNRTPHSERRAVYIGALFPMSSG
 WPGGQACQPAVEMALEDVNSRRDILPDYELKLIHDSKCDPGQATKYL YELLYNDPIKII
 LMPGCSSVSTLVAEAARMWNLIVLSYGSSSPALSNRQRFPTFFRTHPSATLHNPTRVKLF
 EKWGKKIATIQQTTEVFTSTLDDLEERVKEAGIEITFRQSFFSDPAVPVKNLKRQDARI
 IVGLFYETEARKVFCEVYKERLFGKKYVWFLIGWYADNWFKTYDPSINCTVEEMTEAVEG
 HITTEIVMLNPANTRSISNMTSQEFVEKLTKRLKRHEETGGFQEAPLAYDAIWALALAL
 NKTSGGGGRSGVRLEDFNYNNQITDQIYRAMNSSFEGVSGHVVFASGSRMAWTLIEQ
 LQGGSYKKIGYYDSTKDDLWSKTDKWIGGSPPADQTLVIKTRFLSQKLFISVSVLSSL
 GIVLAVVCLSFNIYNHARYIQNSQPNLNNLTAVGCSLALAVVFPLGLDGYHIGRSQFPF
 VCQARLWLLGLGFSLGYGSMFTKIWWVHTVFTKKEEKKEWRTLEPWKLYATVGLLVGMD
 VLTIAIWQIVDPLHRTIETFAKEEKPEDIDVSILPQLEHCSSKKMNTWLGIIFYGYKGLLL
 LLGIFLAYETKSVSTEKINDHRAVGMAIYNVAVLCLITAPVTMILSSQDDAAFAFASLAI
 VFSSYITLVVLFVPKMRRLITRGEWQSETQDTMKTGSSTNNNEEEKSRLLKENRELEKI
 IAEKEERVSELRHQLQSRQQLRSRRHPPTPPDPSGGLPRGPSEPPDRLSCDGSRVHLLYK

FIG.16

³⁵S in vitro transcription/translation

[¹²⁵I]CCP71872 photoaffinity labelling

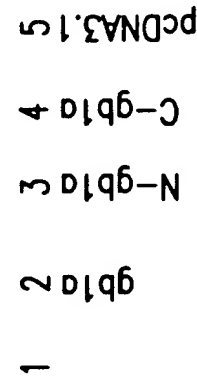
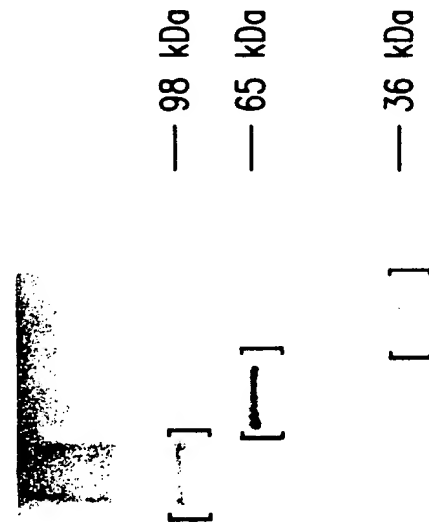


FIG. 17A

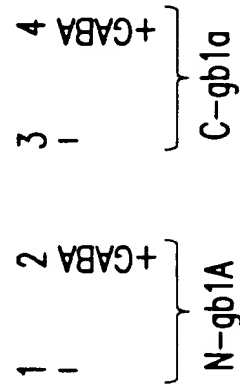


FIG. 17B

APPROVED BY	O.G. FIG.
	CLASS SUBCLASS
DRAFTSMAN	

MLLLLLLAPLFLRPPGAGGAHTPNATSEGCQIIHPPWEGGIRYRGLTRDQV
 KAINFLPVDYEIEYVCRGEREVVGPKVRKCLANGSWTDMTPSRCVRICS
 KSYLTLENGKVFLTGGDLPALDGARADFRCDPDFHLVGSSRSICSQGWST
 PKPHCQVNRTPHSERRAVYIGALFPMSSGGWPGGQACQPAVEMALEVNS
 RRDILPDYELKLIHDSKCDPGQATKYL YELLYNDPIKIIILMPGCSSVSTLV
 AEAARMWNLIVLSYGSSSPALSNRQRFPTFFRTHPSATLHNPTRVKLF EKW
 GWKKIATIQQTTEVFTSTLDDLEERVKEAGIEITFRQSFFSDPAVPVKNLKRQ
 DARIIVGLFYETEARKVFCEVYKERLFGKKYVWFLIGWYADNWFKIYDPS
 INCTVDEMTEAVEGHITTEIVMLNPANTRSISNMTSQEFVEKLT KRLKRHPE
 ETGGFQEAPLAYDAIWALALALNKTSGGGGRSGVRLEDFNYYNNQITDQI
 YRAMNSSFEGVSGHVVDASGSRMAWTLIEQLQGGSYKKIGYYDSTKDD
 LWSKTDKWIGGSPPADQTLVIKTRFLSQKLFISVSVLSSLGIVLAVVCLSF
 NIYNHVRYIQNSQPNLNNLTAVGCSLALAAVFPLGLDGYHIGRNQFPFV
 CQARLWLLGLGFSLGYSMFTKIWWVHTVFTKKEEKKWRKTLEPWKLY
 ATVGLLVGMDVLTLAIWQIVDPLHRTIETFAKEEPPKEDIDVSILPQLEHCSS
 RKMNTWLGIFYGYKGLLLLLGIFLAYETKSVSTEKINDHRAVGMAIYNVA
 VLCLITAPVTMILSSQQDAAFASLAIVFSSYITLVVLFVPKMRRLITRGE
 WQSEAQDTMKTGSSTNNNEEEKSRLL EKENRELEKIIAEKEERVSELRHQLQ
 SRQQLRSRRHPPTPPEPSGGLPRGPPEPPDRLSCDGSRVHLLYK

FIG.18A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

[illegible]

	1	atgttgctgc	tgtgtctact	ggcgccactc	ttcctccgcc	ccccgggcgc	ggcgggggcg
61		cataccacca	agccacctc	agaagggtgc	cagatcatac	acccgccctg	ggaagggggc
121		atcaggtacc	ggggcctgac	tccgggaccag	gtgaaggcta	tcaacttcct	gccagtggac
181		tatgagattg	agtatgtgtg	ccgggggggag	cgcgagggtg	tggggcccaa	ggtccgcaag
241		tgcctggcca	acggctcctg	gacagatatg	gacacacca	gccgctgtgt	ccgaatctgc
301		tccaagtctt	atttgaccct	ggaaaatggg	aaggttttcc	tgacgggtgg	ggacctccca
361		gctctggacg	gagcccgggc	ggatttccgg	tgtgaccccg	acttccatct	ggtgggcagc
421		tcccggagca	tctgtagtca	gggccagtgg	agcaccccca	agccccactg	ccagggtgaat
481		cgaacgccac	actcagaacg	gcgcgcagtg	tacatcgggg	cactgtttcc	catgagcggg
541		ggctggccag	ggggccaggc	ctgccagccc	gcggtggaga	tggcgtgga	ggacgtgaat
601		agccgcaggg	acatcctgcc	ggactatgag	ctcaagctca	tccaccacga	cagcaagtgt
661		gatccaggcc	aagccacca	gtacctatat	gagctgctct	acaacgacc	tatcaagatc
721		atccttatgc	ctggctgcag	ctctgtctcc	acgtgggtgg	ctgaggctgc	taggatgtgg
781		aacctcattg	tgctttccta	tggctccagc	tcaccagccc	tgtcaaaccg	gcagcgtttc
841		cccactttct	tccgaacgca	cccatcagcc	acactccaca	accctaccgg	cgtgaaactc
901		tttgaaaagt	ggggctggaa	gaagattgct	accatccagc	agaccactga	ggtcttccct
961		tcgactctgg	acgacctgga	ggaacgagtg	aaggaggctg	gaattgagat	tactttccgc
1021		cagagtttct	tctcagatcc	agctgtgccc	gtcaaaaacc	tgaagcgcca	ggatgcccg
1081		atcatcgtgg	gacttttcta	tgagactgaa	gcccggaaag	ttttttgtga	ggtgtacaag
1141		gagcgtctct	ttgggaagaa	gtacgtctgg	ttcctcattg	ggtggtatgc	tgacaatttg
1201		ttcaagatct	acgacccttc	tatcaactgc	acagtggatg	agatgactga	ggcgggtggg
1261		ggccacatca	caactgagat	tgtcatgctg	aatcctgcc	ataccgcgag	catttccaac
1321		atgacatccc	aggaatttgt	ggagaaacta	accaagcgac	tgaagagaca	ccctgaggag
1381		acaggaggct	tccaggaggc	accgctggcc	tatgatgcc	tctgggcctt	ggcactggcc
1441		ctgaacaaga	catctggagg	aggcgccgt	tctggtgtgc	gcctggagga	cttcaactac
1501		aacaaccaga	ccattaccga	ccaaatctac	cgggcaatga	actcttcgtc	ctttgagggg
1561		gtctctggcc	atgtggtggt	tgatgccagc	ggctctcgga	tggcatggac	gcttatcgag
1621		cagcttcagg	gtggcagcta	caagaagatt	ggctactatg	acagcaccaa	ggatgatctt
1681		tcctggtcca	aaacagataa	atggattgga	gggtccccc	cagctgacca	gaccctggtc
1741		atcaagacat	tccgcttcct	gtcacagaaa	ctctttatct	ccgtctcagt	tctctccagc
1801		ctgggcattg	tcctagctgt	tgtctgtctg	tcctttaaca	tctacaactc	acatgtccgt
1861		tatatccaga	actcacagcc	caacctgaac	aacctgactg	ctgtgggctg	ctcactggct
1921		ttagctgctg	tcttccccct	ggggctcgat	ggttaccaca	ttgggaggaa	ccagtttccct
1981		ttcgtctgcc	aggcccgctt	ctggctcctg	ggcctgggct	ttagtctggg	ctacgggtcc
2041		atgttcacca	agatttggtg	ggtccacacg	gtcttcacaa	agaagggaag	aaagaaggag
2101		tggaggaaga	ctctggaacc	ctggaagctg	tatgccacag	tgggcctgct	ggtgggcatg
2161		gatgtcctca	ctctcgccat	ctggcagatc	gtggaccctc	tgcaccggac	cattgagaca
2221		tttgccaagg	aggaacctaa	ggaagatatt	gacgtctcta	ttctgcccc	gctggagcat
2281		tgcagctcca	ggaagatgaa	tacatggctt	ggcattttct	atggttaca	ggggctgctg
2341		ctgctgctgg	gaatcttccct	tgcttatgag	accaagagtg	tgtccactga	gaagatcaat
2401		gatcaccggg	ctgtgggcat	ggctatctac	aatgtggcag	tcctgtgcct	catcactgct
2461		cctgtcacca	tgattctgtc	cagccagcag	gatgcagcct	ttgcctttgc	ctctcttgcc
2521		atagttttct	cctcctatat	cactcttggt	gtgctctttg	tgcccaagat	gcgcaggctg
2581		atcacccgag	gggaatggca	gtcggaggcg	caggacacca	tgaagacagg	gtcatcgacc
2641		aacaacaacg	aggaggagaa	gtcccggctg	ttggagaagg	agaaccgtga	actggaaaag
2701		atcattgctg	agaaagagga	gcgtgtctct	gaactgcgcc	atcaactcca	gtctcggcag
2761		cagctccgct	ccggcgcca	cccaccgaca	cccccagaac	cctctggggg	cctgcccagg
2821		ggacccccctg	agccccccga	ccggcttagc	tgtgatggga	gtcgagtga	tttgctttat
2881		aagtga					

FIG. 18B

23/35

APPROVED	O.G. FIG.
	CLASS/SUBCLASS
BY	DRAFTSMAN

1 atgctgctgc tgctgctggc gccactcttc ctccgcccc cgggcgcggg cggggcgcag
 61 acccccaacg ccacctcaga aggttgccag atcatacacc cgccctggga agggggcatc
 121 aggtaccggg gcctgactcg ggaccagggt aaggctatca acttcctgcc agtggactat
 181 gagattgagt atgtgtgccg gggggagcgc gaggtgggtg ggcccaagggt ccgcaagtgc
 241 ctggccaacg gctcctggac agatatggac acaccagcc gctgtgtccg aatctgctcc
 301 aagtcttatt tgaccctgga aaatgggaag gttttcctga cgggtgggga cctcccagct
 361 ctggacggag cccgggtgga tttccgggtg gaccccgact tccatctggt gggcagctcc
 421 cggagcatct gtagtcaggg ccagtggagc accccaagc cccactgcca ggtgaatcga
 481 acgccacact cagaacggcg cgcagtgtac atcggggcac tgtttcccat gagcgggggc
 541 tggccagggg gccaggcctg ccagcccgcg gtggagatgg cgctggagga cgtgaatagc
 601 cgcagggaca tcctgccgga ctatgagctc aagctcatcc accacgacag caagtgtgat
 661 ccaggccaag ccaccaagta cctatatgag ctgctctaca acgaccctat caagatcatc
 721 cttatgcctg gctgcagctc tgtctccacg ctggtggctg aggtgctag gatgtggaac
 781 ctcatgtgct tttcctatgg ctccagctca ccagccctgt caaaccggca gcgtttcccc
 841 actttcttcc gaacgcaccc atcagccaca ctccacaacc ctaccgcgt gaaactcttt
 901 gaaaagtggg gctggaagaa gattgctacc atccagcaga ccactgaggt cttcacttgc
 961 actctggacg acctggagga acgagtgaag gaggtggaa ttgagattac tttccgccag
 1021 agtttcttct cagatccagc tgtgcccgtc aaaaacctga agcgcaggga tgcccgaatc
 1081 atcgtgggac ttttctatga gactgaagcc cggaaagtgt tttgtgaggt gtacaaggag
 1141 cgtctctttg ggaagaagta cgtctgggtc ctcatgggtt ggtatgctga caattgggtc
 1201 aagatctacg accttctat caactgcaca gtggatgaga tgactgaggc ggtggagggc
 1261 cacatcacaa ctgagattgt catgctgaat cctgccaata cccgcagcat ttccaacatg
 1321 acatcccagg aatttgtgga gaaactaacc aagcgactga aaagacaccc tgaggagaca
 1381 ggaggcttcc aggaggcacc gctggcctat gatgccatct gggccttggc actggccctg
 1441 aacaagacat ctggaggagg cggccgttct ggtgtgcgcc tggaggactt caactacaac
 1501 aaccagacca ttaccgacca aatctaccgg gcaatgaact cttcgtcctt tgagggtgtc
 1561 tctggccatg tgggtgttga tgccagcggc tctcgatgg catggacgct tatcgagcag
 1621 cctcagggtg gcagctacaa gaagattggc tactatgaca gcaccaagga tgatctttcc
 1681 tgggtccaaa cagataaatg gattggaggg tccccccag ctgaccagac cctggtcac
 1741 aagacattcc gtttctgtc acagaaactc tttatctccg tctcagttct ctccagcctg
 1801 ggcattgtcc tagctgttgt ctgtctgtcc tttaacatct acaactcaca tgtccgttat
 1861 atccagaact cacagcccaa cctgaacaac ctgactgctg tgggctgctc actggcttta
 1921 gctgctgtct tccccctggg gctcgatggt taccacattg ggaggaaacca gtttctttc
 1981 gtctgccagg cncgcctctg gctcctgggc ctgggcttta gtctgggcta cggttccatg
 2041 ttcaccaaga ttgggtgggt ccacacgggc ttcacaaaga aggaagaaaa gaaggagtgg
 2101 aggaagactc tggaaccctg gaagctgtat gccacagtgg gcctgctggt gggcatggat
 2161 gtcctcactc tcgccatctg gcagatcgtg gaccctctgc accggaccat tgagacattt
 2221 gccaaggagg aacctaagga agatatggac gtctctattc tgccccagct ggagcattgc
 2281 agctccagga agatgaatac atggcttggc attttctatg gttacaaggg gctgctgctg
 2341 ctgctgggaa tcttccttgc ttatgagacc aagagtgtgt ccactgagaa gatcaatgat
 2401 caccgggctg tgggcatggc tatctacaat gtggcagtc tgtgcctcat cactgctcct
 2461 gtcaccatga ttctgtccag ccagcaggat gcagcccttg cctttgcctc tcttgccata
 2521 gttttctcct cctatatcac tctgttgtg ctctttgtgc ccaagatgcg caggctgatc
 2581 acccgagggg aatggcagtc ggaggcgcag gacaccatga agacagggc atcgaccaac
 2641 aacaacgagg aggagaagtc ccggctgttg gagaaggaga accgtgaact ggaaaagatc
 2701 attgctgaga aagaggagcg tgtctctgaa ctgcgccatc aactccagtc tcggcagcag
 2761 ctccgctccc ggcgccaccc accgacaccc ccagaaccct ctgggggcct gccagggga
 2821 cccctgagc ccccgaccg gcttagctgt gatgggagtc gagtgcattt gctttataag
 2881 tgagggtagg gtgaggagg acaggccagt agggggagg aaaggagag gggaaaggga
 2941 ggggactcag gaagcaggg gtccccatcc ccagctggga agaactgct atccaatctc
 3001 atctcttgta aatacatgtc cccctgtgag ttctgggctg atttgggtct ctcatacctc
 3061 tgggaaacag accttttct ctcttactgc ttcattgta tttgtatcac ctcttcacaa

FIG.19A

APPROVED	O.G. FIG.
	CLASS/SUBCLASS
BY	DRAFTSMAN

```

3121 tttagttcgt acctggcttg aagctgctca ctgctcacac gctgcctcct cagcagcctc
3181 actgcatctt tctcttccca tgcaacaccc tcttctagtt accacggcaa cccctgcagc
3241 tctctgcctt ttgtgctctg ttctgtcca gcaggggtct cccaacaagt gctctttcca
3301 ccccaaaggg gctctcctt ttctccactg tcataatctc ttcccatctt acttgccctt
3361 ctatactttc tcacatgtgg ctccccctga attttgcttc ctttgggagc tcattctttt
3421 cgccaaggct cacatgtctc ttgcctctgc tctgtgcact cacgctcagc acacatgcat
3481 cctccccctc cctgcgtgtg cccactgaac atgctcatgt gtacacacgc ttttcccgta
3541 tgctttcttc atgttcagtc acatgtgctc tcgggtgccc tgcattcaca gctacgtgtg
3601 cccctctcat ggtcatgggt ctgcccttga gcgtgtttgg gtaggcattg gcaatttgtc
3661 tagcatgctg agtcatgtct ttctatttg cacacgtcca tgtttatcca tgtactttcc
3721 ctgtgtacce tccatgtacc ttgtgtactt tcttccctta aatcatggta ttcttctgac
3781 agagccatat gtaccctacc ctgcacattg ttatgcactt ttccccaatt catgtttggg
3841 ggggccatcc acaccctctc cttgtcacag aatctccatt tctgctcaga ttccccccat
3901 ctccattgca ttcatgtact accctcagtc tacactcaca atcatcttct cccaagactg
3961 ctcccttttg ttttgtgttt ttttgagggg aattaaggaa aaataagtgg gggcagggtt
4021 ggagagctgc ttccagtgga tagttgatga gaatcctgac caaaggaagg cacccttgac
4081 tgttgggata gacagatgga cctatggggg gggagggtgg gtccctttca cactgtgggt
4141 tctcttgggg aaggatctcc ccgaatctca ataaaccagt gaacagtgtg actcggaaaa
4201 aaaaaaaaaa aaaaaaaaaa

```

FIG.19B

25/35

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

PROXIMAL TO HSN-1. FCMD, DYS LOCI ON CHROMOSOME 9

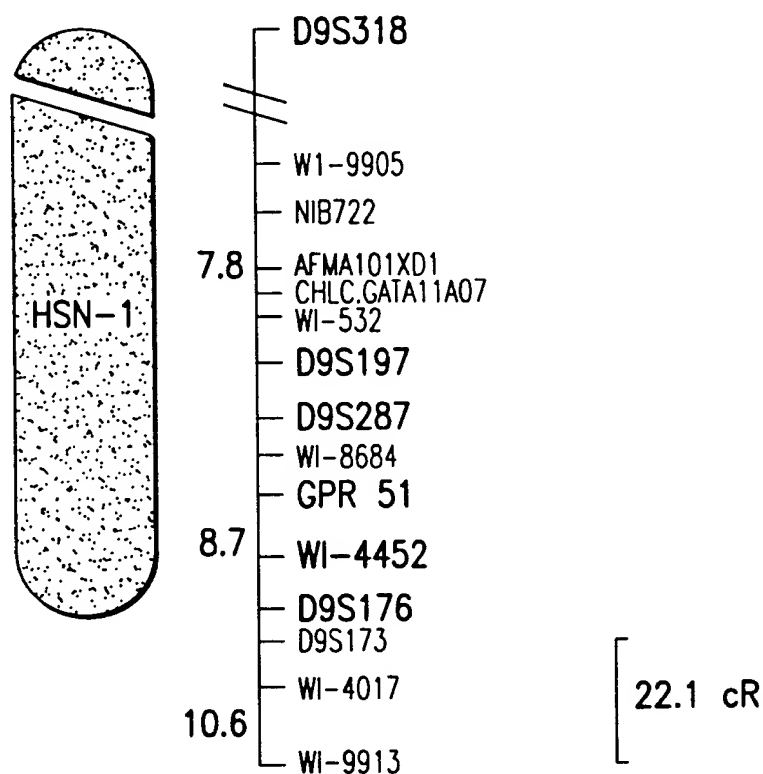


FIG. 20

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

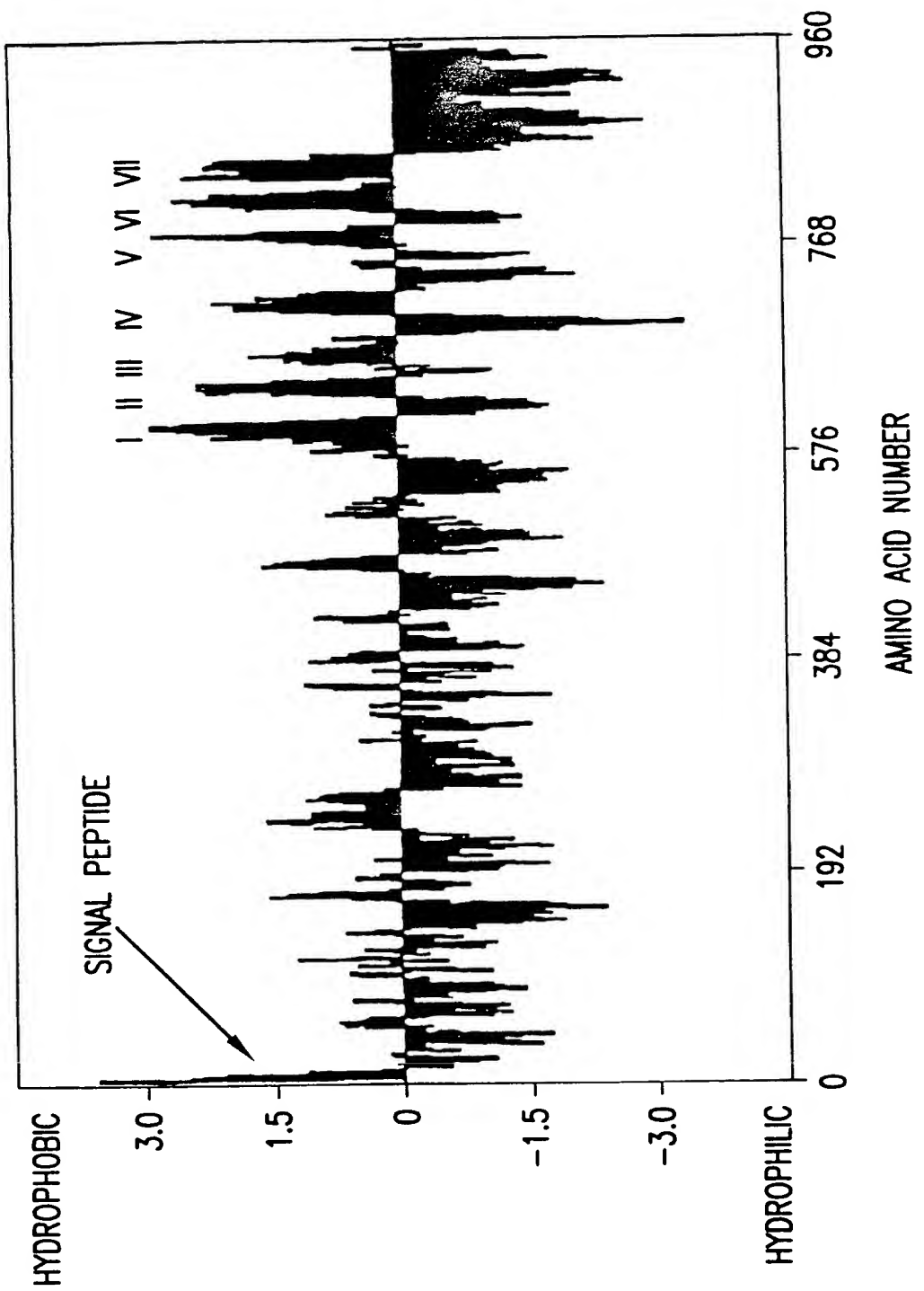


FIG.21

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

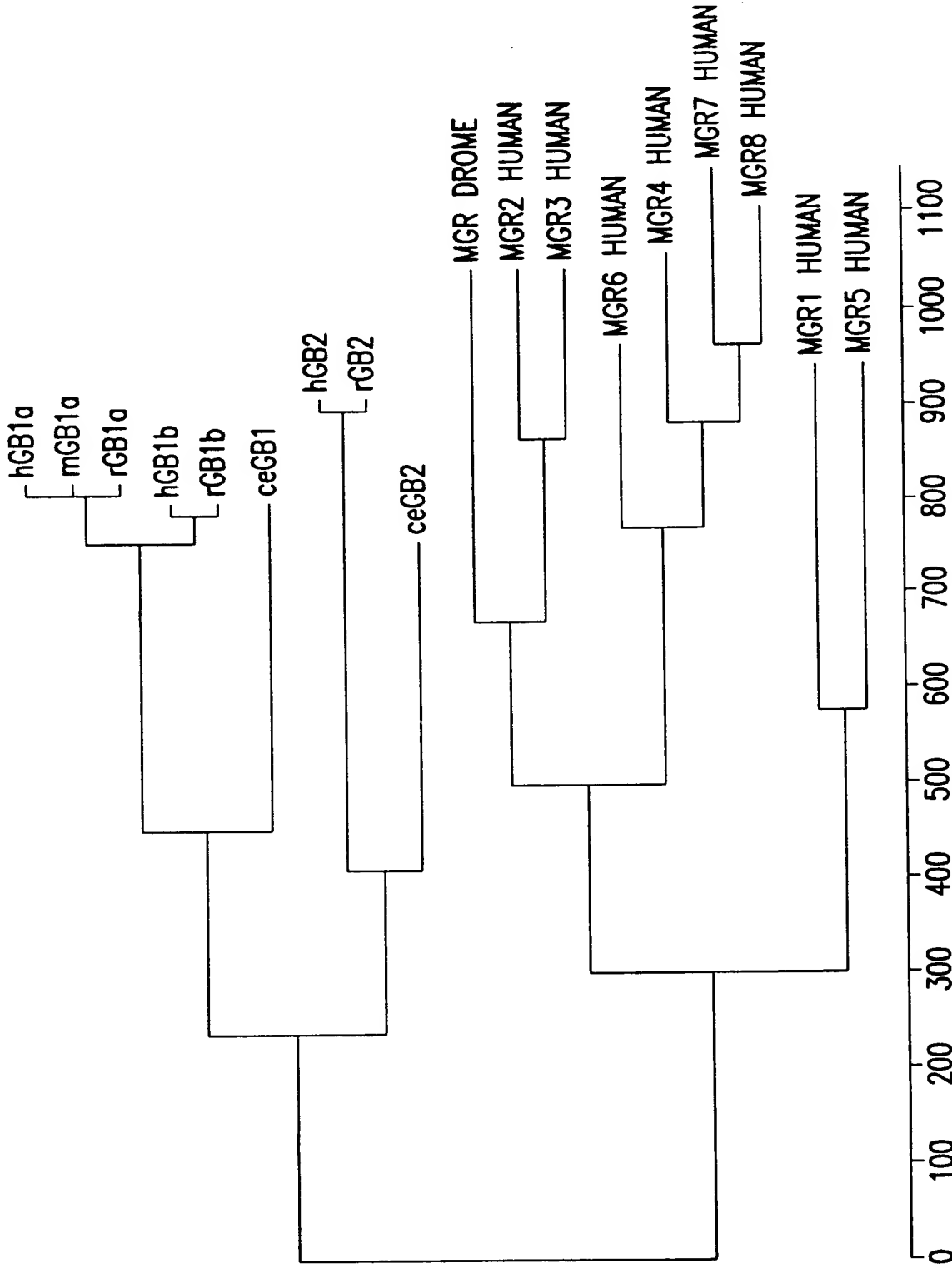


FIG. 22

COILED-COIL DOMAIN IN C-TERMINUS OF gb1a AND HG20 MEDIATING HETERODIMERIZATION

gb l WQSE A.QDTMK TGSSTNNNEEK... SRLEK..ENRELEKI IAEKEERVELRHQLQSRQQLRSRRHPP
hg20 QNRRFQFTQNQKKEDSKTSTSVNQASTSRLEGLQSENHRLRMK I TELDKDLEEVMTQLQDTPEKTTYIKON

FIG. 23

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

項目	単位	数値	単位	数値	
1. 総人口	人	1,234,567	1. 総人口	人	1,234,567
2. 男性人口	人	612,345	2. 男性人口	人	612,345
3. 女性人口	人	622,222	3. 女性人口	人	622,222
4. 0歳人口	人	12,345	4. 0歳人口	人	12,345
5. 1歳人口	人	11,234	5. 1歳人口	人	11,234
6. 2歳人口	人	10,123	6. 2歳人口	人	10,123
7. 3歳人口	人	9,012	7. 3歳人口	人	9,012
8. 4歳人口	人	8,901	8. 4歳人口	人	8,901
9. 5歳人口	人	7,890	9. 5歳人口	人	7,890
10. 6歳人口	人	6,789	10. 6歳人口	人	6,789
11. 7歳人口	人	5,678	11. 7歳人口	人	5,678
12. 8歳人口	人	4,567	12. 8歳人口	人	4,567
13. 9歳人口	人	3,456	13. 9歳人口	人	3,456
14. 10歳人口	人	2,345	14. 10歳人口	人	2,345
15. 11歳人口	人	1,234	15. 11歳人口	人	1,234
16. 12歳人口	人	1,123	16. 12歳人口	人	1,123
17. 13歳人口	人	1,012	17. 13歳人口	人	1,012
18. 14歳人口	人	901	18. 14歳人口	人	901
19. 15歳人口	人	890	19. 15歳人口	人	890
20. 16歳人口	人	789	20. 16歳人口	人	789
21. 17歳人口	人	678	21. 17歳人口	人	678
22. 18歳人口	人	567	22. 18歳人口	人	567
23. 19歳人口	人	456	23. 19歳人口	人	456
24. 20歳人口	人	345	24. 20歳人口	人	345
25. 21歳人口	人	234	25. 21歳人口	人	234
26. 22歳人口	人	123	26. 22歳人口	人	123
27. 23歳人口	人	112	27. 23歳人口	人	112
28. 24歳人口	人	101	28. 24歳人口	人	101
29. 25歳人口	人	90	29. 25歳人口	人	90
30. 26歳人口	人	89	30. 26歳人口	人	89
31. 27歳人口	人	78	31. 27歳人口	人	78
32. 28歳人口	人	67	32. 28歳人口	人	67
33. 29歳人口	人	56	33. 29歳人口	人	56
34. 30歳人口	人	45	34. 30歳人口	人	45
35. 31歳人口	人	34	35. 31歳人口	人	34
36. 32歳人口	人	23	36. 32歳人口	人	23
37. 33歳人口	人	12	37. 33歳人口	人	12
38. 34歳人口	人	11	38. 34歳人口	人	11
39. 35歳人口	人	10	39. 35歳人口	人	10
40. 36歳人口	人	9	40. 36歳人口	人	9
41. 37歳人口	人	8	41. 37歳人口	人	8
42. 38歳人口	人	7	42. 38歳人口	人	7
43. 39歳人口	人	6	43. 39歳人口	人	6
44. 40歳人口	人	5	44. 40歳人口	人	5
45. 41歳人口	人	4	45. 41歳人口	人	4
46. 42歳人口	人	3	46. 42歳人口	人	3
47. 43歳人口	人	2	47. 43歳人口	人	2
48. 44歳人口	人	1	48. 44歳人口	人	1
49. 45歳人口	人	1	49. 45歳人口	人	1
50. 46歳人口	人	1	50. 46歳人口	人	1
51. 47歳人口	人	1	51. 47歳人口	人	1
52. 48歳人口	人	1	52. 48歳人口	人	1
53. 49歳人口	人	1	53. 49歳人口	人	1
54. 50歳人口	人	1	54. 50歳人口	人	1
55. 51歳人口	人	1	55. 51歳人口	人	1
56. 52歳人口	人	1	56. 52歳人口	人	1
57. 53歳人口	人	1	57. 53歳人口	人	1
58. 54歳人口	人	1	58. 54歳人口	人	1
59. 55歳人口	人	1	59. 55歳人口	人	1
60. 56歳人口	人	1	60. 56歳人口	人	1
61. 57歳人口	人	1	61. 57歳人口	人	1
62. 58歳人口	人	1	62. 58歳人口	人	1
63. 59歳人口	人	1	63. 59歳人口	人	1
64. 60歳人口	人	1	64. 60歳人口	人	1
65. 61歳人口	人	1	65. 61歳人口	人	1
66. 62歳人口	人	1	66. 62歳人口	人	1
67. 63歳人口	人	1	67. 63歳人口	人	1
68. 64歳人口	人	1	68. 64歳人口	人	1
69. 65歳人口	人	1	69. 65歳人口	人	1

110 120 130 140 150 160 170 180 190 200 210 220
ENCKVELTGGDLPALDQARMDFRCDFHLVQSSRSICSSQWSTPKPHQVNRTPHSERRAVYIGALFPMSSGWPGGACQPAVEMALEDVNSRPDILPAYEDKLIHDSKQPPQ
----MFRSSWLLDNGITIQWASAEPTVLHIGGTFPMESG-----SGGWACGEACIPAVEMALVDVNSRLDILPQWMMNTINHSQQPQL
-----MNIFRHHGIPPLGVFTVOK-----EGFPDALPAIRTALSHVHSRSCGGYRLEMIWQTHQKTSQ
RLLLLLLPLLLPLAPGAWGACAPRPDSSPPLSIMG-----LMPLTKEVAKGSGRGVLPAVELAJEQIRNESLURPFLDLRLYDTECNAK

230 240 250 260 270 280 290 300 310 320 330 340
 AITKY^YEL^YLYN^YDP^YIK^YII^YMPG^YCSS^YMS^YLV^YAEAA^YRM^YQ^YIMLSV^YGSSPALSN^YQR^YFP^YIF^YERT^YHP^YSA^YTL^YNP^YIR^YN^YKL^YFE^YK^YW^YK^YIA^YTIQ^YQT^YIE^YV^YTS^YLD^YLE^YRV^YKE^YAC^YIE^YIT^YFR^Y
 AMQ^YLYD^YFLYK^YPP^YIK^YML^YTG^YCSP^YMT^YIV^YIAE^YAP^YVM^YK^YIMLSV^YGSSPALSN^YQR^YFP^YIF^YERT^YHP^YSA^YN^YMON^YPT^YRI^YHM^YKE^YK^YW^YK^YFT^YILMS^YVE^YVF^YTI^YAK^YOLE^YNS^YER^YKK^YG^YIK^YVD^YIR^Y
 GKAL^YFD^YIIAS^YPP^YRV^YAI^YIGG^YQ^YCTE^YME^YNP^YITAN^YAK^YY^YMQ^YIV^YQL^YSV^YAE^YTH^YAM^YNG^YQL^YFT^YIF^YFR^YW^YPG^YSR^YNT^YMA^YK^YQ^YEV^YN^YFG^YK^YK^YRV^YG^YIK^YQ^YVD^YQ^Y-----
 C^YIKAF^YYDA^YILKY^YCP^YNH^YLMV^YFG^YYCP^YSV^YTS^YII^YAE^YSL^YQGM^YN^YVL^YQ^YLS^YAA^YIT^YPVL^YAD^YKK^YYP^YYE^YERT^YMP^YSD^YNA^YVN^YPA^YIL^YKL^YHY^YQ^YW^YK^YRV^YG^YTL^YTD^YV^YQ^YRF^YSE^YVR^YND^YL^YTG^YVL^YYGED^YIE^YIS^YDT^Y

350 360 370 380 390 400 410 420 430 440
 QSF SDPAVPV **K**Q **R**QDARI **I**VGLFY **E**TEARKV **C** **L** **M** **K** **E** **R** **F** **C** **K** **K** **V** **W** **F** **I** **G** **W** **A** **D** **W** **K** **I** **V** **D** **P** **---** **S** **I** **N** **C** **I** **V** **D** **E** **M** **T** **E** **A** **V** **E** **C** **H** **I** **T** **E** **I** **V** **M** **L** **N** **P** **A** **N** **---** **T** **R** **S** **I** **M** **I** **S** **O** **E** **F** **I** **V** **E** **K**
 QSFY **G** **D** **P** **T** **D** **A** **M** **K** **I** **L** **Q** **R** **Q** **D** **A** **R** **I** **V** **G** **L** **F** **Y** **M** **T** **E** **A** **R** **K** **V** **L** **Q** **A** **Y** **H** **C** **L** **Y** **G** **R** **I** **Y** **W** **F** **I** **G** **W** **A** **D** **W** **I** **P** **P** **---** **E** **E** **H** **L** **N** **C** **I** **V** **A** **E** **C** **M** **T** **E** **A** **V** **E** **F** **I** **T** **S** **V** **M** **L** **S** **R** **N** **---** **I** **P** **A** **I** **S** **E** **M** **I** **C** **M** **O** **F** **I** **Q** **R**
 ----- **P** **R** **A** **L** **V** **R** **G** **D** **V** **R** **I** **L** **V** **D** **E** **E** **M** **A** **A** **T** **M** **L** **C** **A** **G** **T** **H** **R** **G** **M** **G** **D** **N** **W** **I** **L** **P** **G** **Y** **H** **S** **D** **R** **L** **N** **---** **T** **H** **O** **N** **C** **I** **V** **E** **M** **R** **E** **A** **K** **N** **H** **S** **V** **E** **F** **I** **A** **L** **T** **R** **R** **D** **V** **D** **T** **K** **I** **V** **G** **N** **I** **S** **P** **Y** **V** **I** **L** **N** **L** **F** **O** **R**
 E **S** **F** **S** **N** **D** **P** **C** **T** **S** **V** **K** **L** **I** **G** **N** **D** **V** **R** **I** **L** **G** **Q** **F** **D** **N** **M** **A** **K** **V** **F** **C** **A** **M** **E** **N** **M** **G** **S** **K** **Q** **W** **I** **L** **P** **G** **W** **Y** **E** **P** **S** **M** **E** **D** **V** **H** **T** **E** **A** **N** **S** **R** **L** **R** **K** **N** **L** **A** **A** **M** **E** **G** **Y** **I** **G** **D** **E** **P** **L** **S** **S** **K** **---** **I** **K** **I** **I** **S** **C** **K** **T** **P** **Q** **O** **Y** **E** **R**

450 460 470 480 490 500 510 520 530 540 550 560
 [L]KRLKRHP~~EE~~TGGF~~E~~APLAYDA[WALALAN[TSGGGRS-G[RLEDF~~Y~~AN[NQOT[TDOYIRAMNSSFEGVSG[MFDASGR[MAM[EEQ[QGGSTYK[KGYDST[K]ODUSMSK
 [L]OYFQKOTANVGGF~~E~~APLAYDA[WALALAN[NQTRNN-LPS-HIRLEN[TDNK[V]ADTLFCQVKNTSFCVSG[KMFSDSG[RIR[TQ[EQGG[NIMCYDT[TSGDUEJYN
 AGDVWNEITQLDPNNITWRCY[TDG[WTLALALSHSGD-----NAEF SHHKAME[ADNSSF[QLITGK[MFIAN-E[RL[QLVDIK[QSDG[MPFAMVDC--ADDEFK I
 YNNKPS SCVQPS-KELCYNYQCIHWYAKT[IORAMT[IHA SSRHOR[ODFNY[THT[IGR[IIANMNF TNEFMTGGM[FENG-E[RAGT[IKF TQF QDSREM[KVGEINAVADTLE[IIN

FIG. 24A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790

TMS-1 TMS-2 TMS-3

TDKMIQG-SPPADQTLVTKIFR-FLSQKQFISVSVLSSGLIVLAWCLSFNIYNHVRVIGNSOPNLNNLTAVGCSUALAAVEPLGLDGC--YHIGRNCQEPVQCARLWLLGLGCSLGG
KEQMLNKGPPPD-STVIKTFN-SYSDQFIFSSITLQVFSQFLALHVSFSLHKNIFQ-SQPECNILLGCSLQQLFSLFLICQLPSDDISQSESEFLPLCHARVTLLQFCETFA
IDSTTKGWSPPLD-STTTERPRREHTSSIQFLAMSDALIGIFLALIFLLINFRVNRHFRFKMSSPNLNNIITAGSICITFASVIMGLDIT--RIVSPDVFVWMLCYTKTWILCICQFLLS
DTRFQCGSEPPKDKTILILEQLR-KISLPLYSILSALTILGMIMASAFLEFNINKPNOKLIKMKSSPYMNNILLJLGGMLSYASIFLFCLDG--SFLVSEKITEELCTVRTWILITVGYDTA

YCSMFJTKIIMWVHTVFTKKEEKKEWK⁷LEPMK⁸YATVGLVGM⁹DVLTLAIMQIVDPLH¹⁰RTJE¹¹TEAKEEPKED¹²IVS¹³ILPQ¹⁴JEH¹⁵SSSRKMN¹⁶IM¹⁷LGJFYGYKGLLL¹⁸L¹⁹LQIFL²⁰LAYE²¹ETKSV

YCSMFJAK²²MI²³IVHRMGATENQOLAS²⁴ROP²⁵ISS²⁶KFY²⁷IVAA²⁸L²⁹TAVD³⁰VFVCFV³¹WVL³²IDPL³³HL³⁴TE³⁵QK³⁶PLFAD³⁷SE³⁸ED³⁹EM⁴⁰IM⁴¹VM⁴²LOCC⁴³SSNQOE⁴⁴VMI⁴⁵IG⁴⁶IMCFK⁴⁷GLLV⁴⁸FG⁴⁹TL⁵⁰LSYE⁵¹ETRNL

FCAMF⁵²SK⁵³TWRVH⁵⁴SIF⁵⁵TNI⁵⁶---IRMD⁵⁷RZA⁵⁸IKDS⁵⁹K⁶⁰FI⁶¹L⁶²GL⁶³IL⁶⁴FI⁶⁵DI⁶⁶QM⁶⁷V⁶⁸IMAF⁶⁹VS⁷⁰FT⁷¹SY⁷²TE⁷³Q⁷⁴K⁷⁵FL⁷⁶IFSAR⁷⁷BN⁷⁸IM⁷⁹IL⁸⁰PE⁸¹V⁸²K⁸³NU⁸⁴SSF⁸⁵SGV⁸⁶FQAV⁸⁷LYAM⁸⁸KGM⁸⁹IL⁹⁰GC⁹¹FLAW⁹²ETRM⁹³

FCAMFAK⁹⁴TWRVH⁹⁵IA⁹⁶E⁹⁷KN⁹⁸---VK⁹⁹M¹⁰⁰K¹⁰¹K¹⁰²II¹⁰³KD¹⁰⁴KL¹⁰⁵V¹⁰⁶YCGM¹⁰⁷LL¹⁰⁸ID¹⁰⁹LG¹¹⁰IL¹¹¹IQ¹¹²MA¹¹³VD¹¹⁴PL¹¹⁵RT¹¹⁶VE¹¹⁷K¹¹⁸YSME¹¹⁹PD¹²⁰PAG¹²¹ED¹²²IS¹²³UR¹²⁴PL¹²⁵LE¹²⁶HN¹²⁷TH¹²⁸MT¹²⁹IWL¹³⁰G¹³¹IVYAM¹³²KGL¹³³ML¹³⁴FG¹³⁵CF¹³⁶LAW¹³⁷ETRM¹³⁸

800 810 820 830 840 850 860 870 880 890

STEK[ND]FRAVGMALYNVAI[CL]ITAPVIM[IL]SS-QQDAAFAFASLA-I VFSYITLVVLFVPA[RL]TRGEWQS-EAQDTMKTQSSNNNEEEKSRLLLEKNIR

KLRF[ND]SRFVGLALYNVAVMT[LV]TAPWTL[LI]HGKVDAAFAF[IS]TSLICTYISVGLIYGP[IR]H[IL]KVPPSAD-EIQLNGNVQPCVMSKVDDK[LI]

NIPALNDSKYIGTSVYCCVMSV[LG]LSTSVILQE-RVNEFMSLASFF-VIFST[IL]TLCLVFVPK[VR]F[EL]CCIGS-----

SIPALNDSKYIGMSVYNVNGIMC[LI]CAAVSFLTRD-QPNVQCEIVALV-I[EL]FCS[II]TLCLVFVPK[LI]T[LR]TNPDAATQNRRFQTQNKKEDSKTSTSVTSVNVQASTSRLEGLQSENH

900 910 920 930 940 950 960
ELEK I A E K E E R V S E R H Q L S R Q O L R S R R H P T P P E S G L P R G P P E P D R L S C D G S R V H L L Y K
RYDM K K E

RIRMKITELDKOLEEVTMQLQDTPEKTTYIKQNHQYQELNDILNLGNFTESDGGKAILKNHLDQNPQLQWNTTEPSRTCKDPIDEDINSPEHIQRRLSLQLPILHHAYLPSICGVDDAS

CVSPCVSPTASPRHRHVPPSFRVNVSGL

FIG. 24B

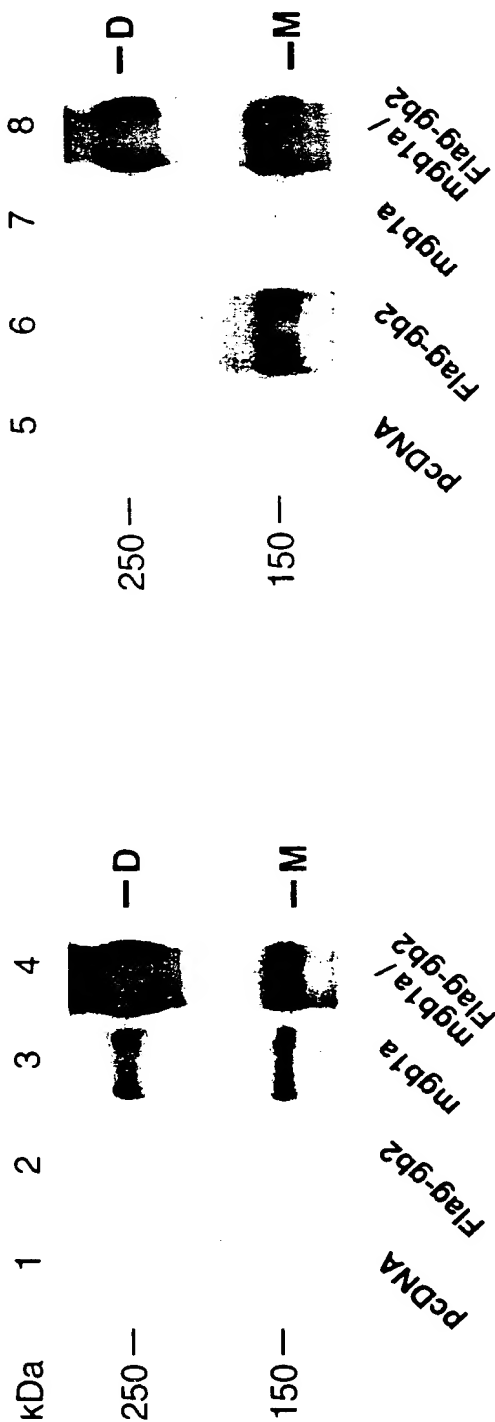


FIG. 25A

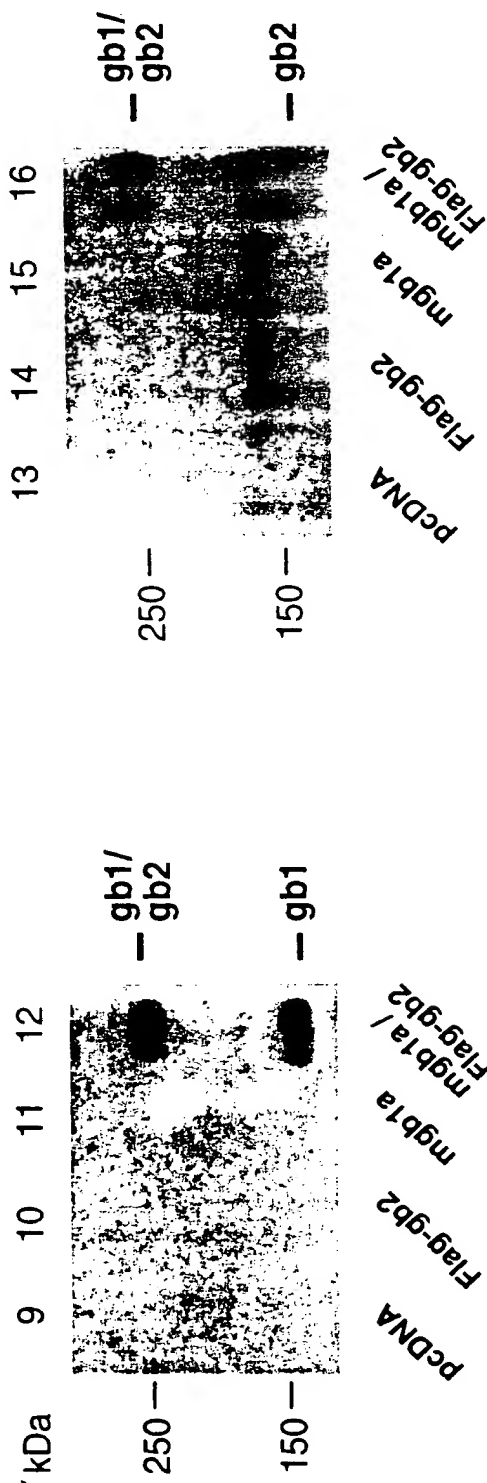


FIG. 25C

FIG. 25B

FIG. 25D

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

mCABab1a MLLLLLLL LFLRPLCAGGAOTPNVTSECCQI IHPMEGG IRYRGL IRDQVKA INFLPVDYE IEYVCRGERE WGPVKVRKCLANGSWTMDMTPSRCVRICSSYMLTLENGKVFLTGGDLP:119
 hCABab1a MLLLLLLAPLFLRPPCAGGAOTPNVTSECCQI IHPMEGG IRYRGL IRDQVKA INFLPVDYE IEYVCRGERE WGPVKVRKCLANGSWTMDMTPSRCVRICSSYMLTLENGKVFLTGGDLP:120
 hCABab2 M.....AS.....PQRS.....PPAR.....LLL.....LP:30
 mGluR1 MUGLLFFFAIF.LEVS.....LLPRSPR.....KVLLAGASSORSVARMDGD:44
 LivK MKRNAKTIIAGMIALAIS.....HTAMADDI.....K.....VA.....29
 LivBPEDJ.....K.....VA.....6

mCABab1a ALDCARVDFRCDPDLHLVGSSRSICSSQWSTPKPHCQVNRTPHSERRAVYIGALFPMSS.GGWPG.GQACOPAVEMALEDNSSRD.ILPDYELKLIHHD.SKOPQQAATKYL YELLY:233
 hCABab1a ALDCARVDFRCDPDLHLVGSSRSICSSQWSTPKPHCQVNRTPHSERRAVYIGALFPMSS.GGWPG.GQACOPAVEMALEDNSSRD.ILPDYELKLIHHD.SKOPQQAATKYL YELLY:23
 hCABab2 LL.....LPLAPCAGWA.....RCAPRP.....PPSSP.PLSIMGLMPLTKEVAKGSI GRGVLPAVELATEQI..RNESSLRPYFLDLRLYO..TEONAKGLKAFYDAIK:12
 mGluR1 VITICAFSVHHQHPAEKVPKCGEIREQYGIQR.....VEAMFHTLDKINADPVL LPNITLGSF..IRD.SCHWSSVALEQSI EFIRDSLISIRDEKGI...NRCLP:142
 LivK .VVGAM.....SGPI.AQNCIME.....FNGAEQAIKDINAKGIGDKLVGVE.YDD.AC.....DPKQAVAVANKIVN:90
 LivBP .VVGAM.....SGPV.AQYCDQE.....FTCAEQAVADINAKGIGKNGKLIQAK.YDD.AC.....DPKQAVAVANKVVN:67

mCABab1a ND.....PIKIIILMPG.CSSVSTILVAEARMN.....LIVLSYSSSPALSNRORFPFIFRTHPSATILHPTRMK LFE.....KNGWKKIATIQOTTEVFTS.TDDLEERVKEAGI:33
 hCABab1a ND.....PIKIIILMPG.CSSVSTILVAEARMN.....LIVLSYSSSPALSNRORFPFIFRTHPSATILHPTRMK LFE.....KNGWKKIATIQOTTEVFTS.TDDLEERVKEAGI:335
 hCABab2 YG.....PNHLMVFGVPSVSTIAESLOGWN.....LVOLSFATTEMLADKKKIPYFFRTPSDNAVNPATILK.LLK...HYQWKRVGTLTQDVQRFSE.VRNDLTGVL YGEDI:224
 mGluR1 DQCSLPPGRTKKP IAGVI.CPGSSVAIQONLLQLFD...IPQIAYSATSIDLSDKTLKYELRVVPSDTLQ.....ARAMDIVKRYNMITYVS AV.HTEGNYGESGMDAFKELAAQEDL:253
 LivK IKYVI.GHLCSS.STOPAS...DIYEDEGILMISPGATAPELTQCG.YOHIMRTAGLDSQQPTAAKYTILETVKP.QR...IATII.HDKQOYGE.CUAR...SVQDQL:185
 LivBP IKYVI.GHLCSS.STOPAS...DIYEDEGILMITPATATPELTARG.YQLILRTIGLDSQQPTAAKYTILEKVKP.QR...IATIV.HDKQOYGE.CUAR...AVQDQL:162

FIG. 26A-1

APPROVED	C.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

mGABab1a EITITRUSFFSDPAPVKN...LKRODARI...INCLFYET...EARKVCEVYKERLFGKYYWFLIGWYADNMFK...TYDPSINCTVEEM.TEAVEGHITTE...IVMLNP:431
 hGABab1a EITITRUSFFSDPAPVKN...LKRODARI...INCLFYET...EARKVCEVYKERLFGKYYWFLIGWYADNMFK...TYDPSINCTVDEM.TEAVEGHITTE...IVMLNP:432
 hGABab2 EISDTEFSNDPCTSVK...LKGNVRI...ILGQFDON...MAKVCCCAEENMCSYQWITPQWYEPSWIEQ...VHTEANSSRCLRNK.LAMEGYIGVD...FEPLSS:324
 mG1uR1 CJAHSOKIYSN...AGEKSFDRLLPKLRERLPKARVVQCEGM.TVRGLLSAM...RRLGVGEFSLIG.SDGWADRODEVIEGYEVEANGGIT.IKLOSPFVRSFDDYFLKRLDTN:362
 LivK KANANVWFFDGTAGEKOFSLI...ARLKKENIDFVYGGYYPFEMGMLROA.RSVGLKTOF.MG.PEG...V.GNASLSNIAGDAWEG...M.LVTM:271
 LivBP KKGANVWFFDGTAGEKOFSTLV...ARLKKENIDFVYGGYYPFEMGQILROA.PAAGLKTOF.MG.PEG...V.ANVLSNIAGESAEG...L.LVTK:248

mGABab1a ANTRISNMTSOEFVEKLTkRLKRHE...ETGCF...EAPLAYD.AIMAJALALINK...TSGGGRSGVRLEDNYYNQITTDQIYRANSSSFEVSGHW.FDASSRMA:534
 hGABab1a ANTRISNMTSOEFVEKLTkRLKRHE...ETGCF...EAPLAYD.AIMAJALALINK...TSGGGRSGVRLEDNYYNQITTDQIYRANSSSFEVSGHW.FDASSRMA:535
 hGABab2 KQIKTISGKTPQOYEREYN.KRSGV...GPSKF...HG.YAYD.GIMVIAKILORAMETLHASSRHQ.RIQDNYTDHTLGRILNANETNFCVITQW.FR.NCERMG:424
 mG1uR1 TRNPWFPEFWQHRFOCRLPGHLENPFKRICTGNESLEENYVQSKMGFVINAJNMAHGLQ.NMHALCPGHVCL.CDAMKPID...CSKLLDFLIKSSFCVSGEEMFDEKQDAPG:477
 LivK PK...RYD...QDPANQIV...DALKAD.KKOPSCPY.WITTYAAVQSLATALERTGSDEPLAL.VKDLKANG...ANTVIGPLN...WDEKQDLK:351
 LivBP PK...NYD...QVPANKPIV...DAIKAK.KOPSCAFV.WITTYAALQSLQAGLNQ.SDDPAEI.AKYLKANS.VDTWMCPLT...WDEKQDLK:326

mGABab1a WTL.IE...QLQGSYKKIGYYD...STKDDLS.WSKTDKWIGCS.PPAD...:575
 hGABab1a WTL.IE...QLQGSYKKIGYYD...STKDDLS.WSKTDKWIGCS.PPA...:575
 hGABab2 TIKFT...QFQDSREVKVEYN...AVADILEIINDTIRFQCSE...PPKQITILEQLR...:475
 mG1uR1 RYDIMNLQYTEANRYDYHVHTWHEBVLNIDDYKIQMKSGVRSVCSPELKGQIKVIRKGEVSCCWICJACKENEYVQDEFICKACDLGWPPNADLTGCEPIPVRY:585
 LivK FDF...QVFO...WHADCS...STWAK...:369
 LivBP FEF...GVFD...WHANGT...ATDAX...:344

33/35

FIG.26A-2

34/35

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

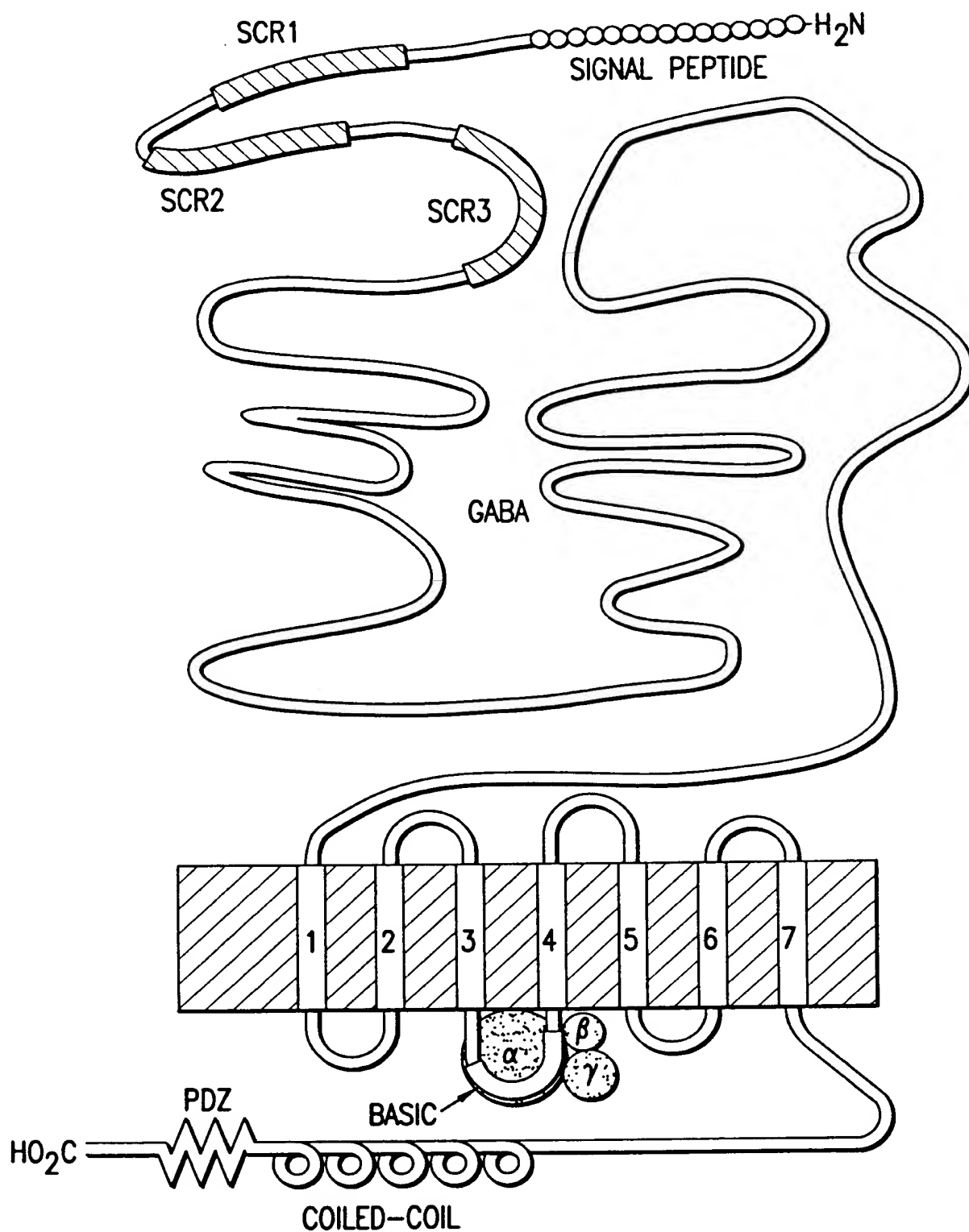


FIG.26B

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

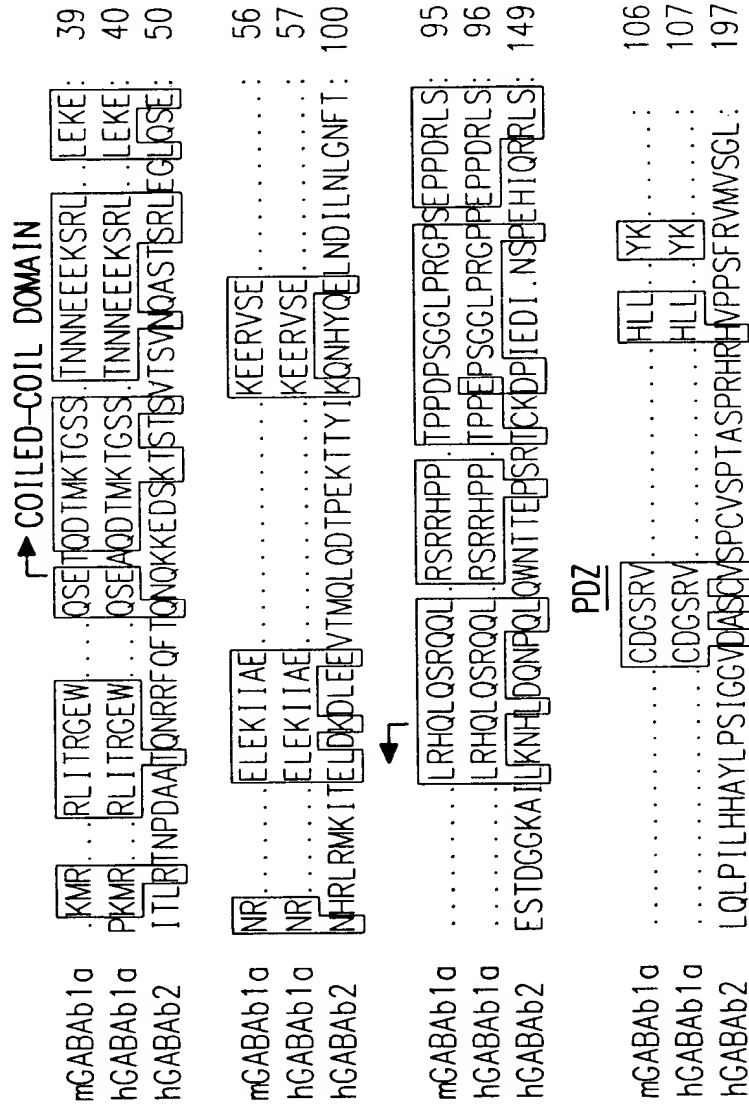


FIG.27